

U.S. PTO



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SUBSTITUTE SPECIFICATION MARKED-UP VERSION

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FIGURE 1083A

GCCCCAGATCGGAAGTGACGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCGCGTTCTTGAGTC
GGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATCCCCGAACCGCGATTGGCGGTGTCAGGAATTCGAATT
TAGAGTTTAAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTACAGTATCTCAAAGACTTCAGTTGACTTCTTG
ATCCTGCATAAAACCAAGGAGAAAAGAAATGGGTCGCTCCAATTCTAGATCACATTCTTCAAGGTCAAAGTCTAG
ATCACAGTCTAGTTCTCGATCAAGATCAAGATCTCATTCTAGAAAAGAAGCGATACAGTTCTAGGTCTCGTTCCAG
AACATATTCAAGGTCTCGTAGTAGAGATCGTATGTATTCTAGAGATTATCGTCGCGATTACAGAAATAATAGAGG
AATGAGACGACCTTATGGGTACAGAGGAAGGGGTAGAGGGTATTATCAAGGAGGAGGAGGTAGATATCATCGAGG
TGGTTATAGACCTGTCTGGAATAGAAGGCACTCTAGGAGTCTAGACGAGGTCTTACGTTCCAGGAGTCCAAA
AAGAAGATCCGTTTCTTCTCAAAGATCCAGAAGCAGATCTCGCCGGTCATATAGATCTTCTAGGTCTCCAAGATC
ATCCTCTTCTCGTTCTTCTATCCCATATAGCAAATCTCCTGTTTCTAAAAGACGAGGGTCTCAGGAAAAACAAAC
CAAAAAGCTGAAGGGGAACCCCAAGAAGAGAGTCCGTTGAAAAGTAAATCACAGGAGGAACCGAAAGATACATT
TGAACATGACCCATCTGAGTCTATCGATGAATTTAATAAGTCATCAGCCACATCCGGTGATATTGGCCTGGCCT
TTCAGCTTATGATAATAGTCTAGATCACCCATAGTCTTACCTATTGCTACACCACCTAGTCAGAGTTCATC
TTGCTCTGATGCTCCCATGCTCAGTACAGTTCAGTCTGAAAAAATACTCCTTCTCAGCATTACATTCCATTCA
GCATAGTCTGAAAGGTCTGGGTCTGGTTCTGTTGGAATGGATCTAGTCGATACAGTCTTCTCAGAATAGTCC
AATTCATCACATCCCTTACGAAGAAGTCTGCAAGACAATCGCACCACAGAATGCTCCAAGAGATGAGTCTAG
GGGCCGTTCTCGTTTTATCTGATGGTGGAGATCAGGAACTGCAAAGACTGGGAAGTTCTTAAAAAGGTTTAC
AGATGAAGAGTCTAGAGTATTCTGCTTGATAGGGGTAATACCAGGGATAAAGAGGCTTCAAAGAGAAAGGATC
AGAGAAAGGGAGGGCAGAGGGAGAATGGGAAGATCAGGAAGCTCTAGATTACTTCAGTGATAAGAGTCTGGAAA
ACAAAAGTTTAAATGATTGAGAAGGGGATGACACAGAGGAGACAGAGGATTATAGACAGTTCAGGAAGTCAGTCT
CGCAGATCAGGGTAAAAGTTTTGCTACTGCATCTCACCGGAATACTGAGGAGGAAGGACTCAAGTACAAGTCCAA
AGTTTCACTGAAAGGCAATAGAGAAAGTGATGGATTTAGAGAAGAAAAAATTATAAACTTAAAGAGACTGGATA
TGTAAGTGGAAAGGCCTAGCACTACAAAAGATAAGCACAAAGAAGAAGACAAAAATCTGAAAGAATAACAGTAAA
GAAAGAACTCAGTCACCTGAGCAGGTAAAGTCTGAAAAGCTCAAAGACCTCTTTGATTACAGTCCCCCTCTACA
CAAGAATCTGGATGCACGAGAAAAGTCTACCTTCAGAGAGGAAAGCCCACTTAGGATCAAAATGATAGCGAGTGA
TTCTCACCGTCTGAAGTCAAATCAAATGGCACCTGTTCTCTTGATGATTCTAACAGACCTGCTTCTTGAC
TAAAGACAGGCTGCTTGCTAGTACACTTGTCATTCTGTCAAGAAGGAGCAAGAATCCGATCCATCTTTGACCA
CATTAAAGTTGCCACAGGCCAGCAAAGCACCTCAGAGTCATTTATTCAACACATTGTGTCTTGTTTCATCATGT
TAAAGAGCAATACTTCAAGTCAGCTGCAATGACCCTAAACGAGCGGTTCACTTCGTATCAGAAAGCCACTGAAGA
ACATAGTACTCGGCAAAAGAGCCCTGAAATACACAGGAGAATTGACATCTCACCAAGTACCCTGAGGAAGCATAAC
CCGTTTAGCAGGGGAAGAGAGAGTTTTTAAAGAAGAAAATCAAAGGGAGATAAAAAATTAAGGTGTGACTCTGC
TGACCTTCGGCATGACATTGATCGCCGTAGAAAAGAAAAGTAAAGAACGGGGAGATTCCAAGGGCTCCAGGGA
ATCCAGTGGATCAAGAAAGCAGGAAAAAATCCAAAAGATTACAGGAATACAAATCTTACAAAGATGACAGTAA
ACATAAAAGAGAGCAAGATCATTCTCGATCTTCACTCTTTCAGCATCACCTTCTTCTCCAGTTCTCGAGAAGA
AAAGGAGAGTAAGAAGGAAAGAGAAGAAGAAATTTAAACTCACCATGAAATGAAAGAATACTCAGGCTTTGCAGG
AGTTAGCCGACCACGAGGAACCTTTTTTGAATTAGAGGCAGAGGAAGAGCCAGAGGAGTTTTTGTGGGACAAA
TACTGGTCCAAACAACCTCAAATACTACTTTTTCAAAGAGACCGAAGGAAGAGGAATGGGATCCAGAAATATACCC
AAAGAGCAAGAAGTACTTCTTGCAATGACGACAGAGATGATGGTGTGGATTATTGGGCCAAAAGAGGAAGAGGTCTG
TGGTACTTTTTCAACGTGGCAGAGGGCGCTTTAACTTCAAAAAATCAGGTAGCAGTCTAAATGGACTCATGACAA
ATACCAAGGGGATGGGATTGTTGAAGATGAAGAAGAGACCATGGAAAAATAATGAAGAAAAGAAGGACAGACGCAA
GGAAGAAAAGGAATAATAATATGAAGTAAGATTACAACAGAGCAGAACTTGCACCCACCATTTTTTTTACCTGA
TTTTTGTCTTCAAATAAGAATGTAGCATTCTTAAATTTTACTGTTTGAAGTAGTCTATAGAAATTTGTT
TTAAGTCTTCAAATATCTTGAGAAATAGTAGACTGTATGTTGAAAATGTACTGAAATAAAGTAGAAAAATTGTTA
CGTACCATATTTGTAACATCAACTTTTTAAACTTTTTAACGTTTTTGTACATGCATTGTAATTTCTGCTTTGTCT
ATAAGATATGGTCAAGTACAGCTCTGTGAAAGTTCTGATTCTTCTTCCCTGTTTGTCAATGTTTTATTCTGA
AGTAAACGTTAGCTCTACATATAAATCCTGGAACAGAAATTGTTTATAGAGACTACACTAATTATTTAACTGTA
TACATCTGTTTTAATTTGAACACACTACATCGTAGGGTGACTGATTTTGAAGTATACCACAGACAAAAAGTTGTT
ACTATGGTAAACTAAGCTAGTTTAAACACTTGAGCAAATGCTTAAAGGAATTAATAAAAAAAGCTTTGCCAAT

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FIGURE 1083B

AGCTAAAAAGTACAAGCTATTAAAAATCAGATTGAAAAGTTTTGAGAAAAATGTTATTTTTACTGAAAGCAAGCAG
TGGCCTATAAAGAACATTCTTAGGAGCCTTTTTCTATTGCGTTCAAACCTGTGTGTTCTCTTTCTATTCTATT
GATAGTTTGAGTCATGGTCTTAGATATTAGCTATTTGTGAGAGGAACTGGTTTGTAAACAATACTGCAAATAGAA
ACCCCATTTCTACTGAACATCCTAGTTTTAAACAGAAGAAAACTGTAATCCTGGGGTTGGTATGTAGGAGGTCT
ATCCTGCAGAATAAGTTGATACATTAGTACCTGATTTTCATATCTTACATATTTATTTGAGCTGAACATTAGTTTG
TAGTGTAACATAATTAGTAAAAATAGAGAAACACAGCATACTGTTTATTAAATAGTATTTTAAAAAAATTGTTTTCA
AATGTCACCAATAAAAGTTTTTGGCAGGAAGCTTGTTCGGGCATTGATCTAACCTTTTTCCCCCATTTCAGTTG
CAGTTTTTGTAGAATGGCTTTTTCTTTTTCTTAAAGAGTTCTATTCTTCAGGTAGATAATTTTCAAATGTGA
ATTATCTTTTTGTGCTATATTGATAGCTCTTAAAGGAGTGAAAATCTAAAATAGTAAATTTCAATGTTAAGTGT
TGCTTTATGGGCATATATAAAGTAGACACATTTTCATTTGTTAATTTAGTTGTGTGTGTGTGTTAAAAGGAGCTA
AIGCTTATTCTGTTAATGTAACTTTTGAAGATCTTAAAGTGATTGCTCTTTCATCTTAAACACTTTTCGAGGATT
TGCAGTGCGTCTAGCACCTAGATTACAGCCAGGAACATTGGTTAAGAAGTGTGGAAACAAAACATAAAGCAAAC
TCAACATATGTGATGTTTATGGCCCTCAGATCCTTAGTATTGTGTGATTTTCCCCCGTTAACATGTCTTTCTAAA
ATTGTCTATTAAAGCAGAGGAAATACCTGCCAAAGGAAGTATGTATTGCATTAATCAGGGCATAACTAATATTCT
CCTGTTTCAAGATAATACTTATTTACGTGTGAAAGCAACATGGATGTGATTCCCAACACAGAATTTTCATGACCCT
TTTATTGTATACAAATAAAATACCATAACAGTTACTTGGTTAGACATCAAATCTGTGTGCATGACTATGTGCTTAT
CCACTTAAGACAATAGGTAAAAGGGGATCTGAGAAATTATGTAATAGGGAGTGGGAATAAACTACTTAATTCCT
GTGGGCAGGTTATATTTAAGTTCAAATGCATTGCTTTAACCTTTGGTTACTTTTATTCTGTTAAACAGAATTGA
AGAAAGAGTATTATACCAGAGTGTAGTAGGCTAGGGTGATTGTAAGAAGTCTGTAATAGAATGTCATTGTGGATG
TTACCTTTTTTCAGATCCAAGCATATAAAAAGCCTGTATATTTTTTAAAAACACATCTTAACTCCACGCTTTACGA
TATTATAAAAAGTTGAATGGTTCCTCTTGGTAAGGATATTTGCTTACAAGTGCTAGGAAATAACTCACTGATACCT
GCGTTAACATACTTTGTTTTGCCTAGAGAGGGGCAATAAAAATGAACCAAGGATATTTCCAGAAAGGATTAAGA
AAGCTGTTTAAGAAGGCCATGACTCTTTAGGTGTGTATGTGTACCTTTTCAGCATCCTAGGAATTTTATACTAAA
AGCAAATGTTTTTTCCAGTTAGTCTTCTTCAAGGAATTACTATTGTTCTTTTGTACAGGTAAAAATCAGTGTT
GGGAATTATAATTTGAGAAAAATATTACCCAGTAACATTGAATGTAGATGGCTAAACGATTCTTACTCAGTGTGA
TGTATAATGATGCAACAGGGACCCTTGTAATTGTCATACGCCAATAAAATGTCACAAGTAAT

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FIGURE 1084

MGRSNSRSHSSRSKRSQSSSRSSRSRSHSRKKRYSSRSRSTYSRSRSRDRMYSRDYRRDYRNNRGMRRPYGYRG
RGRGYYQGGGGRYHRGGYRPVWNRHRSRPRRGRSRSRSPKRSSVSSQSRSSRSRSRYSRSSRSPRSSSSRSSSPY
SKSPVSKRRGSQEKQTKKAEQEPQEE SPLKSKSQEEP KDTFEHDP SESIDEFNKSSATSGDIWPGLSAYDNSPRS
PHSPSPIATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSIQHSPERSGSGSVGNGSSRYSPSQNSPIHHIPSRRS
PAKTIAPQNAPRDESRRSSFYDPGGDQETAKTGKFLKRF TDEESRVFLLDRGNTRDKEASKEKGSEKGRAEGEW
EDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNT EEGLKYKSKVSLKGNRES
DGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSERITVKKETQSPEQVKSEKLDLFDYSPPLHKNLDAREKS
TFREESPLRIKMIASDSHRPEVKLKMAPVPLDDSNRPASLT KDRLLASTLVHSVKEQEFRSIFDHIKLPQASKS
TSEFIOHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVF
KEENQKGDKKLRCD SADRHDIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSR
SSSSSASPSSPSSREEKESKKERE EEFKTHHEMKEYSGFAGVSRPRGTFFRIRGRGRARGVFAGTNTGPNNSNTT
FQKRPKEEEWDPEYTPKSKKYFLHDDRDDGVDYWAKRGRGRGTFRGRGRFNFKKSGSSPKWTHDKYQGDGIVED
EEETMENNEEKKDRRKEEKE

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FIGURE 1085

ATGACCATGGAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCAT
GTGCAGACTCAGACTGGGCAAATTTCAATCCCTGCTTTAGCTCAGTGCAGTGAGCTGAGATCAGGCACCAGAAGA
GGCTCCCCAGCTGTAACCTAGTGCAGTTACCTTCGGGCCAAACTATACATGTCCAGGGAGTAATTCAGACACCA
CAGCCATGGGTTATTTCAGTCATCAGAAATACACACCGTTTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCA
GAATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTACGAAGACCCCTCTTATAGGAAAATACTG
AATGAACTGTCTCTGATGTGCCTGGTGTTCCTCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCT
AGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGT
GGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGA
GCTCCTCCACCAGGTGCTACAATTGTACAGTACGCAGCACAAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCA
GGCAGCCAGGTTGTTGTTCAAGCTGCCACTGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTGCTGCTTTG
CCACAGGGAGTGGTGATGGCTGCATCGCCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACGC
AAACGAGAGCTGAGGCTAATGAAAAACAGAGAAGCTGCCCGGGAGTGTGCGAGGAAGAAGAAAGAAATATGTCAA
TGCTTTGAAAATCGTGTGGCTGTGCTTGAAAACCAAAACAAGACTCTCATTGAGGAACTCAAGGCCCTCAAAGAT
CTTTATTGCCATAAAGTAGAGTAACTGTCTTTGACTTGGACCTTGTTTACTCTAATCAAGGCAGGAGATGCAGCA
GTCCTACTTATTGCCATGTGGACTTGTGGGAAGGACACGTGTGACCCTTAAGAATCCAGTTTGGATTAGTGTGTTG
AAATTGAATTGGGAATGTTGTTCCAGGATGTGGAATGCAGCGTGATCACACTTACCGAGCTTACTTTGATCTGTT
TGTC AATAGCATGCAAAAAATGCTTTGTTTGCCCTTTGCTTCTGCTTTTTTTCAGGGAAGCTGCCAAAGAATGTC
GACGTCGAAAGAAAGAATATGTAAAATGCCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTA
TAGAGGAACTTGAAACCTTGAAAGACATTTGTTCTCCAAAACCTGATTACTAGAAATATTTAACTATGAACTGAT
TACAGA

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FIGURE 1086

MTMETVESQHDGSITASLTESKSAHVQTQTGQISIPALAQCSLRSGTIRRGSPAVTLVQLPSGQTIHVQGVQIQT
QPWVIQSSEIHTVQVAAIAETDESAESEGVIDSHKRREILSRPSYRKILNELSSDVPGVPKIEERSEEEGTPP
SIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALTMTNSGAPPPGATIVQYAAQSADGTQQFFVP
GSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAARECRRKKKEYVK
CLENRVAVLENQNKTLIEELKALKDLYCHKVE

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FIGURE 1087

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTCTGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAAATTTCGAGCC
ATATAAATAAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTTCATAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAAAAAT
ATTGAGTGAAGCTAATTGTCACTTTATTAAGGATTACTTTGTCTGCCACCACCTAGTGTAATAATAAATCAAG
TAATACAATCTTAACTGTTGTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTT
TATAGATCTTTTAGTTTCACTCAGCTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACCTCATATTTGATCTTTTCTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCAATGGTTT
TTCACCTTTTTTATTTACTTCATTTTCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTAT
TCTTTTCTTGATTATGGTATGCTTATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAACAACATGGCTTGTGT
GAAAACCTGAGCAGGIGTTTGTTTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCACTTATTAAACATGTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1088

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

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FIGURE 1089

CATGTCIGGGCGGGCAAAGGCGGGAAGGGTCTGGGCAAAGGAGGCGCTAAGCGCCACCGCAAAGTTCTGCGCGA
CAACATTCAGGGCATCACCAAGCCCGCCATCCGACGCCTGGCACGGCGTGGAGGCGTTAAGCGCATCTCAGGCCT
TATATACGAGGAGACACGCGGAGTTCTTAAAGTGTTTTGGAGAATGTAATCCGCGATGCAGTTACCTACACGGA
GCACGCCAAACGCAAGACAGTCACAGCCATGGACGTGGTTTACGCGCTCAAGCGCCAGGGCCGCACCCTGTATGG
CTTTGGCGGCTGAGTGTTTTACTTACTTACACGGTTCCTCAAAGGCCCTTCTCAGGGCCACCCA

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FIGURE 1090

MSGRKGKGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDAVYTE
HAKRKTVTAMDVVYALKRQGRTLYGFGG

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FIGURE 1091

ATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTGTGGAAGGTGTAGGGAGTGAA
GTCTCACATAGGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCAGTTAGCAGAATCAAGACCTACACCATC
ACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCTGTGCTGATCCACAAGCCACG
TGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACATGATCCAGACCAAGCCAACA
GGAACCCAGCAATCGACCAATACAGCTGTGACCCTGACTGGCTAG

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FIGURE 1092

MRLILALLGICSLTAYIVEGVGSEVSHRRITCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSMDRKSNTRNNMIQTKPTGTQQSTNTAVTLTG

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FIGURE 1093A

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCGCCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGGCCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCCCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCTCACCTGCTTCTCACCCGGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCCGCTGTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCCCGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGCGCTGGCTGCCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAAGTGCCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTGCTTA
GGAGAAATGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCTGTTGCCTTGTATTTCAGAGAA
CAGATGATTCTTTGGGATTGGGACTTAAACAAATGGTATAAGCCTCATTATCAAATCTGGAGGTGGAAATGGA
GTTGATCTTTCAGTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAACTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGACCTCACCAAGAATTTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCCTTTTAAATCAAATCTACTGACTATCCCGAAGCAAAGGTCATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTTCCAACCATGGACCAGTGTCT
ACTGGCCCTCTAACTAATCGATCACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGGA
AAATCAGGTGAAGAAGAAAACATTTTCTCGAAAGAAATCATTCAAACCTATGGAACCTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAATATTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTCTTGGCTTACAGCAGATCCACAATGGTGTGGAACAGGAAATGAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTCTTCGAAGAGCTGCTCTAATCTGATGAGAGTTATGGC
TGCCTGTCTTCAAACATTCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAAATGCATTTCTAGTGGCTACAAATGCCCCCTCAGGCAGTTTTATACAATGACAGATCTGTCTG
GAAAATCATCATGTGCGTCAGCTTGAATCTATATCTTCTCGCCCGAATACAACCTCCTTCTTCATCTTGAT
CATGTGGAATTCAGCGCTTTTCGTTTTTGTAGTATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTGTGAT
TTTCTCGCAGAATTCATGCCAAGGCCAAATGATGTAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCG
CCTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAGTTCGAGACTTGCAATTGAA
ATGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCC
ATTCATGGATCGTTCTTCTCCTCAACTAGCAAACTCCAAGAATCTTTATCACCCACATAGTGGGTCCCTGTG
TAACTCCTATGATGCTGCTGGTTTGTACCAGGTGAGTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGG
TGATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAATGGAAAACAATCTAAATCCAAAACCAAG
AAGGAAAAGCAGACGGCGAATATTTTGTGAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAAT
CGTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAAGTGCAGGTGGAGAATTCTCCTTACCTCAAGCAGA
TGAGATTGAGTAATTGAAGAGGCAGATGAAGAGGAATAGCGACAGTTGAGTAAAAGAAAAGTCATATTGAAGA
AGCCCAGAGGGTTGTGCCAGGGGCGAGAAATCATTGCTAGTGTTCACCGGCTGACTCTCAACTGACCATTCCCA
TGTGGACAGGCCTTAATACTGTGAGAGGATCCTTGTCTGCTGGCAGTTTCCCACTCCTATGCATTTTACAGGA
ACTAGAAAATATTCTTAAACCAAAAAATACCATCCGTGTTGACCCATGTTGCAGAGCCCTTACTTAAATCCTTCA

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FIGURE 1093B

CTGGTGTATGAATACTTTGTCATAATGCTGCTTTGCTGGGTAGTGAGCTCTTATTTTTCTACTGGGGGTCAGCTAT
AACTAAAACTCAAGTGACATAATTCAGTTACCAAAGTGCCAGGAACTTTTGCTTTTATGAAAAATAGATTTCAT
ATTGTATTTCCAGTGTGTCTTTTATGTCTTTGAATGTTTTGGAGAAAAGTCTATGCCTGTCTAAAAATGAATCC
AGTGTTCCTTTCTGAGGGATTTCTGCTCAATGCAATACACTGTTTCAGTGTCTATTCTCCAGCTAGGTTTATCCA
TGAAGGACTGAGTGACCTTTGTTGTATTTAACAAAATCCAGGTGCATCAATTTCTGATGCTTTTTACTATTGTGT
ATTATCTACTATGTGTGTTTTATTTCTGCTGAGAGTATTCAGGTTTGCCATGGACATCAGAAGTTTGAATTCAG
TCTATCTTATGTTCCATGGCTGAATTTTAAAGCTGTTTAGGTTTAAACAATGAAGGGATTTATTCTTTAGTCAAA
ATTGTTGTTTTTACTCTAGCTCAGGATTCGTATTTTTTAAAGATTTAGTTAATATAAACACAGCACAGATTTGTCA
GAAGAAAAAAATTTGCTGTAATACCAAACTAACCTCATCAAAGATACAGAAAAAAGAAATATAGTGAGCCCT
AAAGGACACATACATTGAATAAATAATTGGAACATGTGGTTATCTTTAGATCCACATCTTAGCTGTCATTTGTTT
ACTCTAAAACTGATGTTTCATCTTTCTGTTAATTTCCCTCTGCCATAAGACTACATGACAGAAATGACCTATCACT
ACTTATTTATTTCTGAAGCCTAACTGCAAGACTGATTTCTGAGAACAAGTAAAGAAGTGAATACTTATTTTTTCAT
ATAAAATCTAAATGTGTTAATAAATCATTTCATACAAAAGTACATTATTAAATAACCACATTATTAAAAATAATT
GCAAGAAAAATGGACCATATTTACAATGTTTTGTAAACTTGCTAGTGTGTGGATATGTACCCTACTTGTGAAATAC
ATTTGAAGATATAAAGAGCAGCCAAAATGATGGCAAAATGGTAGGCTAATATTTTCTATTATTATTGGAGAACAT
ATCATATTTTGAATCATGCAATTTTGCACACAGTGAAACCATTAATTTTCCAAGGTAATTCCTTTAGAATATGG
TATTGGCATGCAGTTTCTTACTTATCTAGAATATTTGGCTTATCTGAAAGATATCAATTTAAGATCTCTGGAAGT
GTTAGAATTTTTGATCCTTCACAGTGTCAATATTTAATGAATCACTAAGCTTTATTTATTAGACGTGTTGAGTGA
GTGCTGAGTTCCTTGCTGCCACTTTTGTACCATTGTCACACACTATGTGTAAACCAGTCCCACCACCTATTACT
AATAAAATTTTACTGATAATTTATATTGCACTTACAATATATATATCTGTCTTATATTTCTCTAGAGTACA
TTTTCCATCATGTTTAAAGTGTATTTCTGCTATTATTTCTCTCCTGCAGAATACATACAAGTGTATGTGTATAAA
GTCATACATGTACAAGCATGCATATTGAGATTGAATCACATTTCCATACTGTCTGTTATTTTATTGGGTTTTATA
TTGGGTTTCTTTAGTTTATGTTGTTTTCTCAAAAGCAGCATTTTAAATTACGAATACTGGACTTATTGGATTTAA
TTATAAATCCAATTACTACTGGAACTCATTTTACATAATATAGTCCTTAAATTATTTAACCCTTGCTAAGTAA
TTGACATATGTAACAATAACTAGCCTAAAGAAACCCAAAAAAGTATCTCTCCCGAGCTGAACTTAAAAATTG
TAAGTGTAAAGAAAGATGTGAGAATATATTAAATGCACACTGTACCATTAGATGAAATCTTACTTGAGAAATTGC
CATAAGCCATATTACAGATCTTACTTTGATTGTTACTGAATCAGATTAATTTCTTGTATAATAATTTTCATCAT
AAATTTTCTATTTTTTAAAGCCGCTGGTACTAGAAATATCTTTTAAATGCTATATCTATGTACCTACTGACACATT
TTTCTCCATAAAAGTACTTTTAAAAATTACTTCATGATTTG

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FIGURE 1094

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDIAAFVLALLLGAEPESWAAGAAWLRTLLSVC SHSLSP LFSIACAFFFLT CFLTRTKRGPGPGRSCG
SWWLLALPACCYLGD FLVWQWWSWPWGDGDAGSAAPHTPPEAAAGRLLLVLS CVGLLLTLAHP LRLRHCVLVLLL
ASFVWVVSFTSLGSLPSALRPLL SGLVGGAGCLLALGLDHEFFQIREAPLHPRLSSAAEEKVPVIRPRRRSSCVSL
GETAASYYGSKIFRRPSLPCISREQMILWDWDLKQWYKPHYQNSGGNGVDLSVLNEARNMVSDLLTDP SLPPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGRKLNKGLNRNSLPTQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNGPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSPVNSSNHGPVS
TGPLTNRSPIEF PDTADFLNKPSVILQ RSLGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTSESDGTDCCSG
KSGEEENIFSKE SFKLMETQQEEETEK KDSRKL FQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFP IFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDI PYHNRIHATDVLHAVW
YLTT RPV PGLQQIHNGCGTGNETDS DGRINHGR IAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PGRTN AFLVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLLHLDHVEFKRFRFLVIEAILATDLKKHFD
FLAEFNAKAK

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FIGURE 1095

GTTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGGAATGGTGGGCACAGTGGCTGTCACTGTATGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGCTCATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAACCCAAAAAGTTATCACACCGGAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG
ATGAGTGTAACTTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCCATTTATAATGAAGATTAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAAGTTCTTTATCCCTCTTCTC
CCAGAGGCTTTTTTTTTCTTGTGTATTAAATTAACTTTTTAAAAAGCAGATATTTTGTCAAGGGGCTTGCATT
CAAAGTCTTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGTTTTTAGGAAA
GTGAAATATTTTTGTTTTGTATTGAAGAAGATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAGAGCAGAAAAATATGTCTTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGIGGGTACCT
GAGTCAAATTGTCATTTTTGTTCTGTGAAAAATAAATTTCTTCTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAAACTGACAATCCAATTTGAAAGTTTGTGTCGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1096

MATHALEIAGLFLGGVGMVGTIVAVTVMPQWRVSAFIENNIIVVFENFWEGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1097

CCACGCGTCCGGTTATCAGCAGGATCCATGCCGCCAGAGTAAAGCTTTCTACCCTTTACTCCCTGCAAAGAAACA
AGAGTGCTTATCCCAGCTAAGCTCCAGGGTTAAAACTCTATGCTGGTCATTCCCTTCAGGATTGGCACTCACCA
ACATACCCTTCTTTCAAGTGAAAAGGCATCTCTTTAATGGTCCTGACCTTTGGAATAGGAAGCATGTACCCTGG
ACAGAGCACTTCAAAGTAGAGGAACCATAAATCCATGGCTAACCTTGACAAAATACACTGAAACATTCAAGATGGG
TAGCAACAGTACCAGCACTGCTGAGATTTACTGTAATGTCACCTAATGTGAAATTTCAATACTCCCTCTATGCAAC
CACCTATATCCTCATATTCATTCTGCTCTTCTGGCTAACAGTGCAGCCTTGTTGGGTTCTGTGCCGCTTCATCAG
CAAGAAAAATAAGCCATCATTTTCATGATCAACCTCTCTGTGGCTGACCTTGCTCATGTATTATCTTTACCCCT
CCGGATTTACTATTACATCAGCCACCACTGGCCTTTCCAGAGAGCCCTTTGCCTGCTCTGCTTCTACCTGAAGTA
TCTCAACATGTATGCCAGCATTTGTTTCCTGACGTGCATCAGTCTTCAAAGGTGCTTTTTTCTCCTCAAGCCCTT
CAGGGCCAGAGACTGGAAGCGTAGGTACGATGTGGGCATCAGTGTGCCATCTGGATCGTTGTGGGGACTGCCTG
TTTGCCATTTCCCATCTGAGAAGCACAGACTTAAACAACAACAAGTCCTGCTTTGCTGATCTTGGATACAAGCA
AATGAATGCAGTTGCGTTGGTCGGGATGATTACAGTTGCTGAGCTTGCAAGGATTTGTGATCCAGTGATCATCAT
CGCATGGTGTACCTGAAAACTACTATATCCTTGAGACAGCCACCAATGGCTTTCCAAGGGATCAGTGAGAGGCA
GAAAGCACTGCGGATGGTGTTCATGTGTGCTGCAGTCTTCTTCATCTGCTTCACTCCCTATCATATTAACCTTTAT
TTTTACACCATGGTAAAGGAAACCATCATTAGCAGTTGTCCCGTTGTCCGAATCGCACTGTATTTCCACCCTTT
TTGCCCTGTGCCCTTGCAAGTCTCTGCTGCCTTTTGGATCCAATTCTTTATTACTTTATGGCTTCAGAGTTTCGTGA
CCAACATATCCCGCCATGGCAGTTCTGTGACCCGCTCCCGCTCATGAGCAAGGAGAGTGGTTTCATCAATGATTGG
CTAAAATTAAGATATCTCTTTAATTACGCCCTTTGTTTACCTACGTTTCTTGTCTTTTCCAAAGGCCAGAATTGT
CAACCAATTTCTTTAATTGAACATTGTAAAAAACAGGAATAAGTACTTTTGTGTAATATTCACAGTCAACAGGGG
TGTGATGGTGAAGGCAGAGTGTGAAAAACGTGAGAGAGGAAGAGAAAATAGATTTACCTGATT

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FIGURE 1098

RNHKSMANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLCRFISKKNKAI
IFMINLSVADLAHVLSLPLRIYYYISHHWPFQALCLLCFYLKYLNMYSICFLTCISLQRCFFLLKPPFRARDWK
RRYDVGISAAIWIVVGTA CLPFPILRSTDLNNNKSCFADLGKQMNVALVGMITVAELAGFVIPVIIIAWCTWK
TTISLRQPPMAFQGISERQKALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISSCPVVRIALYFHPFCLCLAS
LCCLLDPILYYFMASEFRDQLSRHGSSVTRSRLMSKESGSSMIG

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FIGURE 1099

GGCACGAGGGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTC
AGACTCTCCTGTCCACAAAACCTCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCAAGCCCGATGCATATG
ACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGG
CAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATG
AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGC
GTTTGCTTTTCTACAAAGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTG
ACCTTGAGAGCAACGAGGAAGAAGGTGACAGTTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCCAGATAGCC
ACTCGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTG
GGAAAGGGTTGATAAGCGGCAAGGAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTTTCGACAGCCC
CTGAATCCTATGAGGAAGTGAATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAA
TTCAGAAGTGCAACCAACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGG
AATACGTTGGCGATTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATC
ATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGG
AAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTATTTGAAAATCACTGGGC
TGCTATTTCCAACITCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCA
AGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTATGTGGCTT
TGTCACAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAA
GCCAAGGTTTCACTCTGGTGACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAACTGCTCGTGGTGTCTGCTAGAG
AGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGTCTCGAATTCCCAGCTCAGGTAATCCACCT
GCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACCCAGCCAAAAAGTAATTTTTTTTAGAGTAATAATGCT
ATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACCCTGCTGCGGTTTTGTTTCTGTTAAACGTCACC
TGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTT
CACTGCGTCTGGACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGGC
TTCATGTGTAGAATTTACTGTTGTTATGCAAATTATATTTCAATTATAAATGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1100

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTAA
AAAACAGGATGACCAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAATTGTGAAAAATAATCAGCAGCCGGATGTGGATAACCCCTTCAAATTTCTCCTGGGGCCTCCAACCA
CCCCACTGGTGTCTCCTGCTGACAGTGATTTCAATTTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTCCAAGGAGACCAGGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGAGCACTTTCCCAATGCC
ATTCTCTCTACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTTGGGCCAGCAACA
AGTTTATTATACCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGTGGCCAGACTGTTACCTGGGTTCCTATATCTTCTCACTAGGCAAGTCTTGCAGGC
CTGGGCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGTCTACCTCAGACTGATGAAGGA
GCTAACACCCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCACGAATTCTCCATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCCTGGCTACAACCACTACTA
ATGTCCCTTCTCTCTGCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAGGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAATACCCTACTAATATACTCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCCTGCACAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAGGAAAACCCATAGGTGGAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACTCAAATGGCCTCTGTGTCATATGTCCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAACTGTCTGGAATTACATAAATATAATTGAGAAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAAACCCAATCCAAGGAAAATAAGAATAACAGTAAAGTGTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAAGATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAAGTGAAGATTGGTTCTCTAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1101

MLVNELNHSKEKECQYEKEKAEREVAVRQLQOKRDDVLNKGSAKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGDGTQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSMLMLQVFES

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FIGURE 1102A

ATGGCGGCGGCGGCGGGGAATCGCGCCTCGTCGTCGGGATTCCCGGGCGCCAGGGCTACGAGCCCTGAGGCAGGC
GGCGGCGGAGGAGCCCTCAAGGCGAGCAGCGCGCGCGGCTGCCGCGGGACTGCTGCGGGAGGCGGGCAGCGGG
GGCCGCGAGCGGGCGGACTGGCGGCGGCGGAGCTGCGCAAAGTGGGAGTGTGGAGCTGGACCAGCTGCCTGAG
CAGCCGCTCTTCCCTTGCCGCTCACCGCCGGCCTCCTCGACTTCCCGTGCCTGGAGCCCGCGGACGCGAGCGGG
AGTGGGACCGGCTTCCAGCCTGTGGCGGTGCCGCCGCCACGGAGCCGCCAGCCGGCGCGGCGCCACCTTACC
GAGTCGGTGGCGGCGCCGGACAGCGGCGCCTCGAGTCCCGCAGCGGCCGAGCCCGGGGAGAAGCGGGCGCCGCC
GCCGAGCCGTCTCCTGCAGCGGCCCCCGCGGTCTGAGATGGAGAATAAAGAACTCTCAAAGGGTTGCACAAG
ATGGATGATCGTCCAGAGGAACGAATGATCAGGGAGAACTGAAGGCAACCTGTATGCCAGCCTGGAAGCACGAA
TGTTTGGAAAGGAGAAATAGGCGAGGGCCTGTGGTGGTAAAACCAATCCCAGTTAAAGGAGATGGATCTGAAATG
AATCACTTAGCAGCTGAGTCTCCAGGAGAGGTCCAGGCAAGTGGCGCTTACCAGCTTCCAAAGGCCGACGCGAGT
CCTTCTCCTGGCAACTCCCCATCAGGTGCGCACAGTGAATCAGAATCTCCAGGAGTAAGGAGAAAAAGAGTTTCC
CCAGTGCCTTTTCCAGAGTGGCAGAATCACACCACCCGAAGAGCCCTTACCAGATGGCTTCTACCATATAGC
CTTGAGGAAACAAACCGCCGTGTTAACAAAGTGATGCGGGCCAGACTGTACTTACTGCAGCAGATAGGGCCTAAC
TCTTCTGATTGAGGAGACAGCCAGACAATAAATACCGGTGTTTATTGGGCTCAGAACTGCAGCTGTGCA
CGTGAACATTCTGTATTCTGCTATTTGTGATGCTCCGGGTGTTTCAACTAGAACCTTCAGACCCAATGTTA
TGGAGAAAAACTTTAAAGAATTTGAGGTTGAGAGTTTGTTCAGAAATATCACAGTAAGCGTAGCTCAAGGATC
AAAGCTCCATCTCGTAACACCATCCAGAAGTTTGTTCACGCGATGTCAAATTCTCATACTTGTATCATCTAGT
ACTTCTACATCTAGTTCAGAAAACAGCATAAAGGATGAAGAGGAACAGATGTGTCCTATTTGCTTGTGGGCATG
CTTGATGAAGAAAGTCTTACAGTGTGTGAAGACGGCTGCAGGAACAAGCTGCACCACCTGCATGTCAATTTGG
GCAGAAGAGTGTAGAAGAAATAGAGAACCTTTAATATGTCCCTTTGTAGATCTAAGTGGAGATCTCATGATTTT
TACAGCCACGAGTTGTCAAGTCTGTGGATTCCCCTTCTCCCTCAGAGCTGCACAGCAGCAAACCGTACAGCAG
CAGCCTTTGGCTGGATCACGAAGGAATCAAGAGAGCAATTTTAACCTTACTCATTATGGAAGTACAGAAATCCCT
CCTGCTTACAAAGATTTAGCTGAGCCATGGATTAGGTGTTTGAATGGAAGTGGTGGCTGCTTATTTCTAGA
AACTGGAATGTGAGAGAGATGGCCCTCAGGCGTCTTTCCCATGATGTGAGTGGGGCCCTGCTGTGGCAATGGG
GAGAGCACTGGAATTTCTGGGGCAGCAGTGAAGCAGCCGAGTGGGGAGCCACCAAGTGGGTCTTCCAGACC
AGTATCTCAGGAGATGTGGTGGAGGCATGCTGCAGCGTTCTGTCAATGGTCTGTGCTGACCCTGTCTACAAAGT
TACGTTGCTGCTTTAAAAACATTGAGAGCCATGCTGGTATATACTCCTTGCCACAGTTTAGCGGAAAGAATCAAA
CTTCAGAGACTTCTCCAGCCAGTTGTAGACACCATCCTAGTCAAATGTGCAGATGCCAATAGCCGCACAAGTCAG
CTGTCCATATCAACACTGTTGGAAGTGTGCAAGGCCAAGCAGGAGAGTTGGCAGTTGGCAGAGAAATACTAAAA
GCTGGATCCATTGGTATTGGTGGTGTGATTATGTCTTAAATGTATTCTTGGAAACCAAACTGAATCAAAACAT
TGGCAAGAACTTCTTGGCCGCTTTGTCTTATAGATAGACTGTGTTGGAATTTCTGCTGAATTTATCCTCAT
ATTGTGCTAGTACTGATGTTTACAAGCTGAGCCTGTTGAAATCAGGTATAAGAAGCTGCTGTCCCTCTTAACCTTT
GCTTTGCAGTCCATTAAATAATTCCCACTCAATGGTTGGCAAACTTCCAGAAGGATCTACTTGAGTTCTGCAAGA
ATGGTTACTACAGTACCCCATGTGTTTTCAAACCTGTTAGAAATGCTGAGTGTTCAGATTCCACTCACTTCACC
AGGATGCGTCGCCGTTTGATGGCTATTGCAGATGAGGTGGAAATGCCGAAGCCATCCAGTTGGGCGTAGAAGAC
ACTTTGGATGGTCAACAGGACAGCTTCTTGCAGGCATCTGTTCCCAACAACCTATCTGGAACACAGAGAACAGT
TCCCTGAGTGCACAATCCATTTAGAGAAAAGTGGAAAAGGATTATGTGCTACAAAATTGAGTGCCAGTTTCCAGAG
GACATTTCTGAGAGACTGGCCAGCATTTAGTAGGACCTTCTAGTTCAACTACTAATACTACTACAAACAGAG
GCAACCAAGCCAAATGGTTCAAACAAAAGGCAGACCCACAGTCAAGTGTGTAAGTCTCTCTTTATCTCATCA
TTCCCAATTAATGTTTCCAGCCTTGTCAACCCCTTCTTCTTACCCCATCTGTACCAGCTGGCACTGCAACAGA
TGTCTCTAAGCATAGACTTCAGGGATTCAATCCCTGCAGAATACCTTCTGCATCTCCTCAAACACAGCGCAAGTT
TTCTCTACAATTCCACAGAACTGTCTGAAAACAAAGACTCAGATAAACTTTCCCGAGTCTTTACTCAGTCAAG
ACCCTTGCCCTCCAGTAACATACAGGCCAAAGCCATCTCGACCTACCCAGGTAATACAAGTAAACAGGGAGA
TCCCTCAAAAAATAGCATGACACTTGATCTGAACAGTAGTTCCAAATGTGATGACAGCTTTGGCTGTAGCAGCAA
TAGTAGTAATGCTGTTATACCCAGTGACGAGACAGTGTTCACCCAGTAGAGGAGAAATGCAGATTAGATGTCAA
TACAGAGCTCAACTCCAGTATTGAGGACCTTCTGAAGCACTATGCCTTCAAGTGATACAACAGTAACCTTTTAA
GTCAGAAGTTGCTGTCTCTGTAAGGCTGAAAATGATGATACCTACAAAGATGATGTGAATCATAATCA
AAAGTGCAAAGAGAAGATGGAAGCTGAAGAAGAAGCTTTAGCAATTGCCATGGCAATGTCAGCGTCTCAGGA

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FIGURE 1102B

TGCCCTCCCCATAGTTCTCAGCTGCAGGTTGAAAATGGAGAAGATATCATCATTATTCAACAGGATACACCAGA
GACTCTACCAGGACATACCAAAGCAAAACAACCGTATAGAGAAGACACTGAATGGCTGAAAGGTCAACAGATAGG
CCTTGGAGCATTTTCTTCTTGTATCAGGCTCAAGATGTGGAACTGGAACCTTAATGGCTGTTAAACAGGTGAC
TTATGTCAGAAACACATCTTCTGAGCAAGAAGAGTAGTAGAAGCACTAAGAGAAGAGATAAGAATGATGAGCCA
TCTGAATCATCCAAACATCATTAGGATGTTGGGAGCCACGTGTGAGAAGAGCAATTACAATCTCTTCATTGAATG
GATGGCAGGGGGATCGGTGGCTCATTGCTGAGTAAATATGGAGCCTTCAAAGAATCAGTAGTTATTAACTACAC
TGAACAGTTACTCCGTGGCCTTTTCGTATCTCCATGAAAACCAAATCATTACAGAGATGTCAAAGGTGCCAATTT
GCTAATTGACAGCACTGGTCAGAGACTAAGAATTGCAGATTTTGGAGCTGCAGCCAGGTTGGCATCAAAAGGAAC
TGGTGCAGGAGAGTTTACGGGACAATTACTGGGGACAATTGCATTTATGGCACCTGAGGTACTAAGAGGTCAACA
GTATGGAAGGAGCTGTGATGTATGGAGTGTGGCTGTGCTATTATAGAAATGGCTTGTGCAAAACCACCATGGAA
TGCAGAAAAACACTCCAATCATCTTGCTTGTATTTAAGATTGCTAGTGCAACTACTGCTCCATCGATCCCTTC
ACATTTGTCTCCTGGTTTACGAGATGTGGCTCTTCGTTGTTTGAAGTTTCAACCTCAGGACAGACCTCCATCAAG
AGAGCTACTGAAGCATCCAGTCTTTTCGTACTACATGGTAGCCAATTATGCAGATCAACTACAGTAGAAACAGGAT
GCTCAACAAGAGAAAAAACTTGTGGGGAACCACATTGATATTCTACTGGCCATGATGCCACTGAACAGCTATG
AACGAGGCCAGTGGGGAACCCCTTACCTAAGTATGTGATTGACAAATCATGATCTGTACCTAAGCTCAGTATGCAA
AAGCCCAACTAGTGCAGAACTGTAACTGTGCCTTTCAAAGAAGTGGCCCTAGGTGAACAGGAAAAACAATGAA
GTTTGCACTAGCTAAATTGCAGAAGCATAATTTTATTTTTTTGGAGCACTTTTTCAGCAATATTAGCGGCTGAGGG
GCTCAGGATCTATTTTAAATATTTCAATTATTCTTCCATTTTATATAGTATCACAAGCAGGGGGTTCTGCAATTC
CGTTCAAATTTTTTGTCTACTGGCTATAAAATCAGTATCTGCCTCTTTTAGGTCAGAGTATGCTATGAGTAGCAAT
ACATACATATAATTTTTAAAGTTGATACTTCTTTATGACCCACAGTTGACCTTTATTTTCTTAAATACCAGGGCA
GTTGTGGCTCATTGTGCATTTTACTGTTGGCCATTCTTTTCGTTTTTGGAAATTATGGTTTTGTATTTTCAIGT
TTATTTACATTCATTTTTTGTATTTCAGGGAAAGCTGATCTTTTTTCAAACCAGAAAAAAATGAAGTAGAT
ATGAAGTAGAGTTTCATTAAATATCTTGCTATTGTGAGAGTTTTTAAATATAGACTTAATTTTGTTTTTTAAAT
TGGAATACAATAAAGTACTACCTACATTTGAGTCAGTCACCACTCTTATTGTGCAGGTTAAGTACAAGTTAACTA
AAAATAAACTGTCTCTCTGGTGCAACTCACAACCAAGATCAAGATTACCTTAAATTTTATTTGAATTTTTTAGA
TGTTTTGGTTGTCAAACGTAGGAACTTCACAACATTTAAGTCTTACTCTGTATGTAACAATCCATCATTACC
TTCACTACTGGTAATAACATAGAGCTGCCATTTTCTTTTACCATGCATCATCTCTTACAGTAGGCCTGGCAGA
TCATTTTTTAAAAAGATTATTCAACTACCAATCAGTAATGTTTTTAAACAGTACATTTGCTTTGAACTTGGAAAA
TGTGTTTCAGAAAGAAAAATGGAATTGAATTTCAATTATACACTAATTCCTTGGATTTTGCACAGTTACCTAACGG
TTTTAGTCTGGAGTTAAATTCAGATGCATGGAATCCTGAAGGAAATGGTAGCTTTTAAATCTTTTTGTGTGTGT
GTGAGTCTTTTTAAATCAAGTACTGATTAACATTAAGTACAACCTTGAGATTTTAGTTTTAACTCTTCAGAAGCC
AGTGTGAAATAGAATTGGTTATTCTCAAAGACTCAGGATAAACTAAATAAGCTATATATAGAGTACATTTAAAT
GTACAACACAAATTGGAAGTAAATAAGTTACAAGATAAGTTTACAGGGATATATTGCTTACAATTTTTAAAGG
CAGTTTGTTTTTTATGTGAATATGTTTCTTAGTGAAATTTTACATTCCTTTGTTTTGGAAGATTGGCGATATTG
AAGAGTTAAAAATAGTACAGAAATGTGAAGTTTGGTATCTCTAAATGTGTTGTACTTGACTTTCTTTTTATTTT
TTTTTATTTTTTTTGGACTACTTAGAATTTTACAATTCTAATAAGATTGTTTCCAAGTCTCTCATGTGCAAGCTT
TAAAGGATGCACTCTTGCCATTTTATGTACTGGAAGATCATTGGTCAGATGAATACTGTGTCTGACAAAAATGTA
AACTGTATAAACTGAGGAACCTCAGCTAATCAGTATTACTTTGTAGATCACCATGCCACCACATTTCAAACCTCA
AACTATCTGTAGATTTCAAATCCATTGTGTTTGGAGTTTGTGTCAGTTCCCTCAGCTTGCTGGTAATTGTGGTG
TTTTGTTTTTTGTTTTGTTTTCAATGCAAATGTGATGTAATATTCTTATTTTCTTTGGATCAAAGCTGGACTGGA
AATTGTATCGTGAATTATTTTTGTGTTCTTAATGTATTGTTGTTACTCAAGTTGTAATAACGTCTACTACTGTT
TATTCAGTTTCTACTACCTCAGGTGTCCTATAGATTTTCTTCTACCAAAGTTCATTTTACAATGAAATTATA
TTTGCTGTGTGACTATGATTCCTAAGATTTCCAGGGCTAAGGGCTAACTTCTATTAGCACCTTACTGTGTAAGC
AAATGTTACAAAAAAGACAAGAAAAAATCTCTGGGTTAAGAAAAATTTGGCTTAAATGTATCCTTTGTATTTT
AAATATATTGAGATATTTTAAATTTTACCCTTGAACCGATTTTATAGTATTGTACCTATTTTGGTG
TTTTTGTCTTTATAGTAAATAAAAGTTTTTGAACAAAAAAGTGCAGCGG

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FIGURE 1103

MAAAAGNRASSSGFFGARATSPEAGGGGALKASSARAAAAGLLREAGSGGRERADWRRRQLRKVRSVELDQLPE
QPLFLAASPPASSTSPSPEPADAAGSGTGFPVAVPPPHGAASRRGAHLTESVAAPDSGASSPAAAEPEGKRAPA
AEPSPAAAPAGREMENKETLKGLHKMDRPEERMIREKLKATCMPAWKHEWLERRNRGPVVVKPIPVKGDGSEM
NHLAAESPGEVQASAASPASKGRRSPSPGNPSGRVTKSES PGVRRKRVSPVPFQSGRITPPRRAPSPDGFSPYS
PEETNRRVNKVMRRLYLLQQIGPNSFLIGGDS PDNKYRVFIGPQNCSCARGTFCIHLLFVMLRVFQLEPSDPM
WRKTLKNFEVESLFQKYHSKRSSRIKAPSRNTIQKFVSRMSNSHTLSSSSTSTSSSENSIKDEEEQMCPICLLGM
LDEESLTVCEDGCRNKLHHHCMSIWAEECRNRNREPLICPLCRSKWRSHDFYSHELSSPVDSPSSLRAAQQQTVQQ
QPLAGSRRNQESNFNLTHTYGTQQIPPAYKD LAEPWIOVF GMELVGCLFSRNWNVREMA LRRLSHDVSGALLLANG
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVLSMVCADPVYKVYVAALKTLRAMLVYTPCHSLAERIK
LQRLLPQVVDITILVKCADANSRTSQLSISTLLELCKGQAGELAVGREILKAGSIGIGGVYV LNCILGNQTESNN
WQELLGRLCIDRLLEFP AEFYPHIVSTDVSAEPVEIRYKLLSLLTFALQSINN SHSMVGKLSRRIYLSSAR
MVTTVPHVFSKLEMLSVSSSTHFTMRRLMAIADEVEIAEAIQLGVEDTLDGQD SFLQASVPNNYLETTENS
SPECTIHLEKTGKGLCATKLSASSEDISERLASISVGPSSSTTNNYYNNRATKANGSNKRQTPQSVFELLSFISS
FPINVSSLVNPFFFYPICTSWHCNRCLKHRLQGFIPCRIPSASPQTQRKFSLQFHRNCPENKDSDKLSPVFTQSR
PLPSSNIHRPKPSRPTPGNTSKQGDPSKNSMTLDLNSSSKCDDSF GCSSNSSNAVIPSDETVFTPVEEKCRLDVN
TELNSSIEDLLEASMPSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHNQKCKEKM EEEEEALAIAMAMSASQD
ALPIVQQLQVENGEDI IIIIQDTPETLPGHTKAKOPYREDTEWLKQQIGLGAFSSCYQAQDVGTGLMAVKQVT
YVRNTSSEQEEVVEALREEIRMMSHLNHPNIIRMLGATCEKSNYNLFIEWMAGGSVAHLLSKYGAFKESVVINYT
EQLLRGLSYLHENQIIHRDVKGANLLIDSTGQRLRIADFGAAARLASKGTGAGEFQ GQLLGTIAFMAPEVLRGQQ
YGRSCDVWSVGCAIIEMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLQLPQDRPPSR
ELLKHPVFRTTW

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FIGURE 1104A

GTITAGTGTAAACCTCAGCTACACTGAAGGAATAGACCTTAGTCTCACAAGTATAAGTTCTAGCTTGAAGCCT
GGTTTCTGCAGTAGCTGTGGAACCTAAGCCTCTGAGCTCAGGGATGCAGAGGCATTGAGTTACTACCAAGGGCCT
GATCTTTTCTTTAGCAGGCATCTGTGTTAATTGTTTCAAAGGTGGTGATCAGTTTTACAGCCTATTATAAAGGA
GATTTTTGCCTACTATAAACTAATCCCCCTGAAAGAGTGAGTAAACATAACTTTTTGTGTGTGACTTCCACAA
GGGAAGGAGTTGGCACTTACACTCTGACTTTTTGATTAGTCGTCTTCTTGAGCCATTTTTGCAGGGGATCAGTT
TGGAGTGGGCCTTAACAATGTTATTCTTTTTTCTTCTCCAGAACACCTTCCACCATGACCACCTCAGCAAGTTC
CCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATCTG
GATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAGTT
GCCTGAGTGGAAATTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCTGC
TGCCATGTTTTCGGGACCCCTTCCGTAAGGACCCTAACAAGCTGGTGTATGTGAAGTTTTCAAGTACAATCGAAG
GCCTGCAGGTGTGTTATAGCACAGCTATGGATACCCCCTCCTCAATCTGTGAATGCTGTGAAGGGGAGGGAGAAGA
CATTCTGAAATCAGCATTTGGGAAGACTAGGCAATTTACAGCACTATTTAAGAATCTGAGTGATTCTTTTCCCTGA
ACTTCTGCTTTGAGGAAGAGATAATATGGCCCATCTTTCTATGGTCTTCTCTGTGTGGTTGCATAAAATAGCATTG
GATTGTGCCAGATCTGTTTGGCGGTCTTGGAGTCCCCAGTAACAGCCTTCTGCTGGAATGTAGGCCAGGACAA
ATGTAAACCAATGGACAAATGTTTCTCAAAAATTATAGAATGGCTCCAAGTGCCTGAGAAATGAAGAATAAATCT
GACAACCAGAAGCAGCTGTCTTGTGAATAGAGGGTTAAGTGCCTGGCATTGGTGCTTGGGAGGTGGCCAGAATG
CAGATAAGGTGAAAGTTGCCCTGTTCTAAATCCACTCCCATGTGACTTGGTTGTAAGTGTAGTTAGTTAAACTG
AAGTCTTTAGAGTCTTCTACAGATGTACAATTAACAGCTTCTCTATTTTTCTGACTCGGTGATCCCAAGAAG
GCCTATACTGGGTGAGTTCATACCATAGTGACACCTCAGTTGTATAGAATCCAAGGACTATTCTCCCATCAGCA
TCGGTATTTCAGCATCTATGTCTTTAGATCCCTGATGGCGTATTATTGACTCTTTTTTCTAGAGACCAATTTGAGG
CACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCTC
ATGGGGACAGATGGGCACCCCTTTGGTTGGCCTTCCAACGGCTTCCAGGGCCCCAGGGTAAGTCTCCTTGGGT
AGAGGTGAAATTTCCAGAAGTGTCTAACTGTGAGGAATGCCCTTCCAGGGATGGGAATGACTTTCAGAATCA
AGAAGCAAAATAATACAGTAAAGGCGAAACAGCCCTCACATCACCAAAGTCCAAAATGGATATGAATATATAAA
GTAAGTTTTAGGGGAACGTTTGGCCCCACTGAAGCTGTGGTGAAGAGGAACCTCCCTATTGCCCTCCCTGC
CCCGCACCTGCAGATGAAGGCAAGGATAGTGATTCAAGAGGGCAAGGCTTAAGGGCCTTCTGATCTCTGACTTTG
GGATTCTCTGGATTTCTTGACTCTTAGTGTTTTGTCTGATGCTTCTGTAGGTCCATATTACTGTGGTGTGGGAG
CAGACAGAGCCTATGGCAGGGACATCGTGAGGGCCATTACGGGGCTGCTTGTATGCTGGAGTCAAGATTGCGG
GGACTAATGCCGAGGTGATGCTGCCCAGGTAAGTATAGCTCCAATCCATCAATGAAGAAGGGTAGGTAGGTGTA
CATAGGACTTTTGTAGTAAGGGCTGCTGATACCACTCACTAACCCAAAACCTAAGAACGGGTGGAGTACAG
GTGAGAAGAGAACAGGTTTAGGAGATTCTGAGTTGGAGTGAGCAGTTAGCTTTGTTTAAATGGCCAAGCTTCTCG
TTTCTAGTGGGAATTTAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCTTTTCAT
CTTGATCGTGTGTGAAGACTTGGAGTGATGCAACCTTTGATCCTAAGCCCATTCCTGGGAACCTGGAATGG
TGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTGAGTACCTTCTGCTGG
GGCCATCTTTAATCTCCTGTGGCAGAAAACCTTGGGAGGAGACTTAGCAATCTCTCAGCAAAGTCTCCTTTCAGG
ATGACTTGCAAATATTTGCCAAGATGAGTAAACTTGACTTCTCAGTCTGGACGTACTTTAGGTGTTGACACTTG
CCTTCACATTCTCTCATTTTGTTCCTATTTGAAAAATACCAAATAATACTTCTGATTACAGTGATAAAATATTG
TTATAATTTATATAATATATATTAGTCATATATCATTATATAAATATATATCGATATATATTTGTGACATATG
TCATGGTGACAGGGAAGTTGACAAATTCATGCATTTGAAAATCTTTAGAACTAAATTAGTAACAATACAGGC
ATGTGGATAAGCTTAATGCTTATGAGGGGGAGAAAGTTCAAATGATTAGTCTTTTCAACAAACAGTAACTTTGT
ACTGCTTGTGCGGCACTGTTCTCACCCTGAGACACACAGGTAAGAAGATGCAGCCACTGCCCTCATGAAGTATT
TGTTCTACTGGTATCATATTTTGGTGCACTTCATTCTTGGCTCCATACCTGGAGACAAGGTGGAGTGGCATCTT
TTCTGTTTACTCTAGGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCACCAGTACCACATCCGTGCCA
TGATCCCAAGGGAGGCCTGGACAATGCCCCGACGTCTAAGTGGATTCCATGAAACCTCCAACATCAACGACTTTTC
TGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGA
AGATCGTGGCCCTCTGCCAAGTGCAGCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGCTTCTCAATGA
AACC GGCGATGAGCCCTTCCAGTACAAAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTTCTTC
ATCCCACTCCAACCTCTCCCCCTCTCCAGTTGTCCGATTGTAACCTCAAAGGGTGGAAATATCAAGGTGTTTTT

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FIGURE 1104B

TTCATTCCATGTGCCAGTTAATCTTGCTTTCTTTGTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCA
CACCTACCCTCCTTTTTTTCCCTATCACTGAAGCTTTTAGTGCAATTAGTGGGGAGGAGGGTGGGGAGACATAAC
CACTGCTTCCATTTAATGGGGTGCACCTGTCCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCAGAAGGGGG
TCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGGAA
ACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCA
GAGAGAATGGCTTTGGTCTCTTGCTTGTGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGC
TTAGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAGGTTCTTACTGCTTGGTCCTTGATTTATCACAC
AAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAAACTATATGTATGGTTTTGTGGATTATGTGTGT
TTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATC
TCATTTTGTAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCCTTTTGGGT
TTCTGCCCTGCCACCCTCTGGAGAAGGTGGGCACCTGGATTAGTTAACAGACAACACGTTACTAGCAGTCACCTG
ATCTCCGTGGCTTTGGTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGGTCAACTTGAG
CATGTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCTTTTGATA
TTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAATCAAATTTGTAGGGTTTCTAGGTAATTTTAC
AGAATTGCTTGTTTCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAAACA
CTTGTAATTTTGTATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAA
ACCCACCTTTTATTCCTTCATTTTCACTACCATTTTCTGGTTCTTGTGTTGGCTGTGGCAGGCCAGCTGTGGTTT
TCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTTGTAACAACT
GTGTAAGTGCCCAAAGCAGCACTTATAAATCAGCCTAACATAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1105

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAGVL

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FIGURE 1106

GCCACAGTGTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCGGTCCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTGTTTACAGACCACGCAAGGAGTTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTGCGCCATAGGCCACAGTGTCTCAAGGTGGAAGTGTTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGGACGGTGGAAAACAAGGAAAATGATTAAGA
GAAATGAGCAGCATGGAAAAGTTTCCAGTCTTCAGCAGAGAAGTTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTGTTTATTTGTTTTCCAGTAGTTAGCTTTCTTCTGGATTCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGCTTGAATTGTAGGTGACTATTATATTTCCAAGAAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTTAATGTGGAATGATGTTTCATAAGAATTCGTTGATGGAATACACIGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTTAAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTACCTTTAGAAAGCTGAGTGTTTCACACCTTATCTATGTAGAATATATTTCTTAT
TCAGAAATTTCTAAAAGTTTAAAGTTCTATGAGGGCTAATACTTATCTTCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACCTGCCATCATTACTTTTAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAATTCCTGACTGC
TAGTTTATATAGAAATGTATCTTTTAGTTTTTAAAGTAAAGGCAAACCTTAACAATGACTTGACTCTGAAAGTT
TTGGAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGGATAGGGGACCAGAGAGAGCTTGGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1107

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1108

GTTTTCAATTTCTAAATGCTAATCCTTTTTCTTTCTTCTGTCTATGAGTAGGAACCTCTCTCTCCATCCCTGTAGA
ATCTCTTGGACATGTTTATCTCATGCTTATGGGGTCCCCATTTCTTGGAGTGGGATTGACATTGGTGGATTCTGC
TTCAGTGTATCCTTCTTGC GGTCCTTATTGTCATGCATGAGTCAACTGTGTGCATCCCATTTGTGCTTTCCCCAGGC
CAGTCTCTCATGCCCCATTCCATTTCCCCTGCCCTATAGGCCTCCTTTTCATGTACTCTGCCCCAACGGTTTTGGGGG
ACAATCTGGGCCAGAAGGGGAGCGCAGCTTGGCACCCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCAT
CGGGGACCATGTGGCCAGGAGCTTTTTCAGGGCTCAGATTGGGCATGGCAGAAGAGGCAGAGAGGCCTGGGGA
GAAAGCCGGCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGCATCTTGGACGAATTCCTTCA
AACGTATGGCAGCCTCATACCCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTCCAGCAGGAGTT
TTCCACCCCTTCCAGGTGAGGCTTGAAAGCCCTCCTTGAAAGAAGGGCTGGGGCCTTGGGGATGTGGAGAGAATA
CTGCTGCCCTTTTTCTTCATAGGGCTGTAGTTGGGGAGGAGGAAGCTAGAGCTGAAGGGGAGGACTCTGCAGGCAG
GTGCCAAATCCTTGGAAAGCTGATGGGAGAGTCTTTACCTGGGACCCTGAAATGTTCTACCTGAGTAGTCATGTTT
ATCTTTCTGGGGAGTGGGCCTTTTCGAGGTCTCAGAAGGACCCATCATGAGCCAGAAAAAGGGAGTCAGTTAG
AATTTGTATTCCAGGGAGTAGTAGGTATTTCTGTGTGCCCCAGCTGCATCATCTTTGTGTGACTCCACCCTTGG
CCTACTCAGGAAGGGCCTGGTGTTCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATGCCATGGTGAGGGG
CTTCCGAGTGGCTTATAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTTGTATGGACAGAACTGGCTCAG
TGACCAGGTGAGAAAGGGTAGAGAAACAGGCCTGAGAGGGGATTGAGGGAGCAGGGTGTCTGGGGCCCTCTGCAT
GGGGGAGCCCTGTACCCATGCCGCACCCCTCCATGGCAAGCTGCCTCCCATCTTCTCCCCAGGTGATGAACATGTA
TGGAGACCTGGTCATGGACACAGTCCCTGAAAAGGTAGGCCCAACCAGATAGGTGAGTACCCAGAGGAACTTCTG
CAGTTTTAAGCAGCTTTTTAAGCTCCTTTTCATCTCTTTCAATTTACACAGAGAGGGTCTCTGTTTCAGGGAGAGA
GGTGGTAGTGGTAGTGTATTAATTTCAAATCCGTAATCTTGGGCTCTGGATTTATCAGTTGTTTTCTTTCTGCC
AGTATTTAGTGTTTTTCGCTATGGCCAGCCCCAAGGATTGGGATGGGTTCTATTGTAACATTGTAAAACAAGA
TTT

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FIGURE 1109

MSRNSLSIPVESLGHVYLMMLGSPFLGVGLTLVDSASVYPSCGLICMHESTVCIPLCFPQASLSCPFHFPCPIGL
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGS DLGMAEEAERPGEKAGQHSPLREEHVT
CVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR

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FIGURE 1110

CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGGAAGATGGCGGCTGGGTTCAAAACCGTGGAACCTCT
GGAGTATTACAGGAGATTTCTGAAAGAGAAGTCCGCTCCTGATGGAAGAGAAGTGGTGAATTCAGAACCAAC
TGTC AACATCGGTTCAATTAGTACCGCAGATGGTTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGG
AGTTAAAGCAGAATTTGCAGCACCATCAACAGATGCCCCCTGATAAAGGATACGTTGTTCTTAATGTGGATCTACC
ACCCCTGTGTTTCATCGAGATTCGGGTCTGGACCTCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTTCATTGCAGA
TGTCATTGAAAAATTCACAGATAATTCAGAAAGAGGACTTATGCATTTCTCCAGGAAAGCTTGCTGCGGTCTATA
CTGTGATCTCATTTGCCTCGACTACGATGGAAACATTTTGGATGCCTGCACATTTGCTTTGCTAGCGGCTTTAAA
AAAAGTACAGTTGCCTGAAGTTACTATAAATGAAGAAAGTCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTA
TTTGAATATTAGAAGTTCATCCAGTTGCAACTTCCTTTGCTGTGTTTGATGACACTTTGCTTATAGTTGACCCTAC
TGGAGAGGAGGAACATCTGGCAACAGGAACCTTAACAAAGTAATGGATGAGGAAGGCAAACTCTGTTGTCTTCA
CAAACCAGGTGGAAGTGGGCTAACTGGAGCTAACTTCAGGACTGTATGAGCCGAGCAGTTACAAGACACAAAGA
AGTTAAAAAAGTATGGATGAAGTAATTAAGAGTATGAAACCCAAATAAACAGCCACCACATTTTCAAAACAGAT
TTGTAAAAATTTGATTTGTTAACACTGTGCACAAACGTTTTATACTAAATAAATATCAAACTACAAAAA
AAAAAAGGGCGGCCCTTTTTTTTTTTTTTAAATATATACACAAAACTTAGTTTCAGCAAGGCTTCAT
GATATACACCAATTCCAAAATAAAACAATCAATGGTCCAGGTGTAGAATGCCAGATTCTTTTATCATCTGCGA
GGAAAAGAGAAGCAGGATGAGGAAGAGTGAGGGAAGGCGGGGACAGGCTCTGCCAGAGAGCTGCCGCCCTCTG
GCACAGCAAAACGCTCCAGGCCTGGGCCCTGTTTATATCTGGAGTCGGAGGGAGACTCCCATCGGCCGCTTTGGGA
CTGAAAGGCCCAAGGCTGTACCCAGCTCCCGGAAGAGAGGGAGGCAGTCTTGTTTTTGTGCTGGGAAGGGGTTG
GGTGGAGAAAAAGATTACAGGCACATCACCACAGGGGACCAGAAGTGAGAGAGAAGACAGAGAGTTCTGCCGAGGC
CTTGGTCTTCTGTCTTTTCAATCTTGCTTCCCCAACTCTCCCTGCTTCTGAGGACCATCGGTAGGGGTGGGA
GCAGCAGTCAACACAGCCACTGGGAAGGGAGGCACAAGCAGCACTCCAGCTTCCCAGTGTGCTGCCCTCACACTCA
CCTGGACAGGTGAGGGGACACAGGATGAAAGCCATGCCCCAATCTAAGAGCAAGACAAGTGAAGAGTGAAGTACTC
TCACTGTGTACCCAGCATAGGAATAGTGAAACCTGCTACAAGTGGAGGCTGCGTTCCCAGTACTTCTCTCTCG
CTCTCCTTGCTGGGACTTGCTGGTTCCAGGGGTGCATATAGGGAGGGGGCGGGGGCCACAACCCCGAGACGGT
GAGGACAGGCTTCCGACCCCTGTAAAGCCAGATCCAGTGGGATGTGGGAGAGCTGGGCGGTACCTTCCCTCTT
GCCCCGGTGGCCCATCACACTCACACTGCACCCTGGGCAAGCAGTTCCCTGAACCCCAAGGGGCTCACAAACCT
TAAAGCTGGAGCTTAAAGCCTCCTGGCTTAGTACAAGCAGGAGAAGCCTCACCTTCCACTCCTGCTTGTCTCT
TTGCTCTACCTGGCTCCCTGCCCGAGGGAAAAATATTTACACAGAGTAGGAGACAAATTGGCTGAAAAGCTC
TGGACTGTCTTTAACTTATTTTAAACAAAAA

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FIGURE 1111

MAAGFKTVEPLEYYRRFLKENC RPDGRELGEFRTTTTVNIGSISTADGSALVKLGNTTVICGVKAEFAAPSTDAPD
KGYVVPNVDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVFD TLLIVDPTGEEH L ATGTLTIV
MDEEGKLCCLHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 1112

TCTCTCTCGGCGTTTCCGCTGTCAGGCGCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTTCACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCCTTGTCGGGGAGGAGCT
CGTCACCAAACTGTTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTGCTGATGTACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTTCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTAAAAAGGCCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
AGGCGGGGAGGAGGAAAGGTCGCGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACATGATCG
TGCTGCCAGATTGAGCTGCTGCAACTGCTGGTTTCAGATTGCGAGCGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTGTGAGGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGGACGAATGGATGAAGAATTTACCAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGACGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTACGATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTGCAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTGCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGACAGATGTTTGAGCTGGATCTGCCCACTGTGCACTCCATCAT
CAGCAAAATGATCAATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTGTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 1113

MSRFFTTGSDSESESSLGSEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKRFEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKMNKNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDEDEDESDS
EDDEDWDTGSTSSDSSEEEEGQTALASRFLKKAPTDEDKAAEKKREDKAKKKHDKRSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENHNADQPLRVRCILTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAIIERVQRYLEEKGTTEEVCRIYLLRILHTYYKFYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRITCAILCHIYHHALHSRWYQARDLMLSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQEKEKVERRRQVPFHL
HINLELLECVYLVSAMLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVDLFPKADKVRTMLVRKIQESLRTYLFYSSVYDSISMETLSDMFELDLPVHSIISKM
IINEELMASLDQPTQTVVMHRTEPTAQQLALQLAEKLGSLVENNERVFDHKQGTGGYFRDQKDGYNKGYMR
RGGYRQQQSQTAY

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FIGURE 1114A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCGTGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGCACAGAGTTAAACCAGGCCTGGAGCAGCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCACAGACCTGCAGCGCTTCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGCTGGCAGCTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGA
TGGTGTCCCGGGAGGCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AATCATGAAGACTTTGACAAAGCGATTACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAACTCAAACCCTCCAACAGTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAATAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAAACAGCAGC
AGAAGTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTAGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCTTGGAAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCTCACCAACAGGAACTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGTTCTCGCCGCCAAACACGTTTCACTCAAGGCCATCGAGGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCTTGAAGAAAATCAAAGCTTTGCGCGAGGCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTCAGAAGGAGCAGCGGCGGAGGAGAGACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1114B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCCA
TGGTGGAGGAAGGGGAACCTGACCCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAGCCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAAGTGAAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCCTTGCTGCGATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAAATCGAAGCAGCTGGCTCCTCCCCTTGT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAA
AAAAAAAAC

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FIGURE 1115

GCGACTGTCTCCGCCGAGCCCCGGGGCCAGGTGTCCCGGGCGGCCACGATGCGGCCGCGGCTGTGGCTCCTCC
TGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCCTCCAGCAGACCCCTGCATACATAAAGGTGCAAACCA
ACAAGATGGTGATGCTGTCTGCGAGGCTAAAATCTCCCTCAGTAACATGCGCATCTACTGGCTGAGACAGCGCC
AGGCACCGAGCAGTGACAGTCACCACGAGTTCCTGGCCCTCTGGGATTCCGCAAAAGGGACTATCCACGGTGAAG
AGGTGGAACAGGAGAAGATAGCTGTGTTTCGGGATGCAAGCCGGTTCATTCTCAATCTCACAAGCGTGAAGCCGG
AAGACAGTGGCATCTACTTCTGCATGATCGTCGGGAGCCCCGAGCTGACCTTCGGGAAGGGAAGTCAAGCTGAGTG
TGGTTGATTTCCTTCCCACCACTGCCCAGCCCCACCAAGAAGTCCACCCTCAAGAAGAGAGTGTGCCGGTTACCCA
GGCCAGAGACCCAGAAGGGCCCACTTTGTAGCCCCATCACCTTGGCCTGCTGGTGGCTGGCGTCCTGGTTCTGC
TGGTTTCCCTGGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGAGCCCGGCTTCGTTTCATGAAACAATAA
GATTACATCCACTGGAGAAATGTTCCAGAATGGACTACTGAATATACAGGCCTCAAGGGGAAGGTATATCAGGAA
CCTTTGTCCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGAAGCTGCTTAACCCATGGATCC
TGAAAACATAGGCAAGAAGCACAGGTCTGTGATGAGTGGATCTTTACTACTTTTACCAGATTCTCCCTCGCTCAG
AGGATCCTCCACACACCCAGCAGAGACTTCTCTGCCACCATCAACCCCCCAAGTCATAGGGGGCTCAAGTTCTG
CCCTGGTGAGCTGTGGCCCCCATCCTTGTGAACCCCAAAGTGTCCCCCTGTGGAACCAAATGTATCCATCTTGA
ATAAATTTGCCCAAAATCCTAAAGACCGGGAAAAGGGAACCATTG

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FIGURE 1116

MRPRLWLLLAQLTVLHGNSVLQOTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQAPSSDSHHEFLALWDS
AKGTIHGEEVEQEKIAVFRDASRFILNLTsvKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPTTAQPTKKSTL
KKRVCRLRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQLRLHPLEKCSRMDY

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FIGURE 1117A

GTACTCTCGCGGIATTTGTCCCGACTCTCGCGGGGTTTAGCGTGGCATTGGGAGGCCCGGCCTGGGGGAGGAGAC
GGCGTTCCGTTAGCGCGGTTGGGGTTTGGCTGCAGTGGCAGTGCTTTCTCTCTGCTCACGGGGACCCGCTCAGG
CTGGAGGCCAGCCAGCTCTTGCCGCCACCTCGGTTCGGGATGGGGCGCAGGACCGGCCGAGTGCCACTTCGACA
TCGAGATCAACCGGGAGCCGGTTGGTCGCATTATGTTTCAGCTCTTCTCAGACATATGTCCAAAAACATGCAAAA
ACTTCCTTTGCTTGTGTCTCAGGAGAGAAAGGCCTTGGGAAAACAACTGGGAAGAAGTTATGTTATAAAGGTTCTA
CGTTCATCGTGTGGTTAAAACTTTATGATTACAGGTGGGGACTTCAGTGAAGGTAATGGAAGGTTGGAGAAT
CAATTTATGGTGGATATTTAAAGATGAAAACTTTATTCTCAAACATGACAGAGCGTTCTTTTATCAATGGCAA
ATCGAGGGAAACATACCAATGGTTCCAGTTTTTCATTACCACAAAGCCTGCTCCACACCTGGATGGGGTGCATG
TAGTCTTTGGACTGGTTATTCTGGTTTTGAAGTAATCGAACAAATTGAAATCTGAAGACCGATGCTGCAAGCA
GACCATATGCAGATGTGCGAGTTATTGACTGTGGAGTACTTGCCACAAATCAATAAAGATGTTTTGAGAAAA
AAAGGAAGAAACCAACTCATTGAGAAGGCTCGGATTCTCTTCCAATTCTCTCTCTTCTTCTCAGAATCATCTTCAG
AAAGTGAACCTGAACATGAGAGAAGCAGAAGGAGGAAACATAAGAGGAGGCCAAAAGTTAAACGTTCTAAAAAGA
GGCGAAAGGAAGCAAGCAGTTGAGAAGGCCAAGGAATAAACATGCAATGAACCCAAAAGGTCAGTCTGAGAGGA
GTGATACCAATGAAAAAAGGTGAGTTGATTCCAGTGCTAAAAGGGGAAAAACCTGTGGTCCGCCCAGAAAGATTCT
CTCCAGTGCCTGAGAACCGATTTTTACTGAGAAGAGATATGCCTGTTGTTACTGCAGAACCTGAACCGAAGATTCT
CTGATGTTGCAACCATTTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGGCA
CAATTCGCTATCACACACCTCCAAGATCAAGATCCTGTTCTGAGTCAGATGATGATGACAGCAGTGAACTCCTC
CTCAGTGGAAAGAGGAAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAAATGGAGTAAAGGAGATA
AGTTAAGTGACCCCTGTTCAAGCCGATGGGATGAAAGAAGCTTGTCTCAGAGATCCAGATCATGGTCTTATAATG
GATATTATTGACACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAACGCAGAAAAAGAAAAAGGTTAAGC
ATAAAAAAGAAAGGAAAAAGCAGAAACACTGCAGAAGACACAAACAAAGAAAGAGAGGATTCTTATACCGT
CTGACATAGAATCCTCAAAATCTTCCACTCGAAGATGAAATCCTCTTGTGATAGAGAAAGGAGTTCTCGTTCTT
CCTCATTGTCTCATCTCACTCATCAAAGAGAGACTGGTCTAAATCTGATAAGGATGTCCAGAGCTCTTTAACC
ATTCCAGCAGAGACTCATAAGATCAAAATCTCACTCACAGTCTTATTCTAGAGGAAGCTCAAGATCAAGGACTG
CGTCAAAGTCTCATCATATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCCAAGTCTGGGCACCGAAAGAGAG
CATCAAAATCACCAAGAAAAACAGCTTCTCAGTTAAGTGAATAAACCAGTTAAACAGAACCTTTAAGAGCAA
CCATGGCACAAAATGAAATGTAGTAGTACAACAGTTGTAGCAGAAAAATTTCTGTAATACCACTGAGTGACA
GTCCCCCCCCCTTCAAGATGGAAGCCTGGACAGAAACCTTGAAGCCCTCTTATGAGCGAATTCAGGAAATGAAAG
CTAAAAACAACCCATTTGCTACCCATCCAAAGCACTTACAGTTTAGCAAAATATTAAGAGACTGGTAGCTCATCAT
CCTACCATAAAAGAGAAAAAAATTCGGAAGTGATCAGAGCACTTATTCAAAATACAGTGATAGAAGTTCAGAAA
GCTCACCAGGTCAAGGAGCAGATCTTCTAGGAGTAGATCTTATTCCAGATCATATACAAGATCACGTAGTCTAG
CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTACGAAATAAATACAGTGATCATTACAGT
GTAGTAGATCATCTTCATATACTTCTATTAGCAGTGATGATGGAAGGCGAGCTAAGAGGAGACTTAGATCCAGTG
GGAAAAAAATAGCGTTTACATAAAAAGCATAGCAGCAGCTCTGAAAAGCACTTCACAGTAAATATGTCAAAG
GTAGAGACAGGTCTTCATGTGTGAGAAAGTATAGCGAGAGCAGATCATCTTTAGATTATTCTTCAGACAGTGAGC
AGTCAAGTGTTCAGGCCACACAGTCAGCCAGGAAAAAGAGAAGCAGGGCCAAATGGAAAGAACACATAATAAAC
AAGAAAAAACAGAGGTGAAGAAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAAAAAAGAACTTTGAAAG
AGAATCTTTCTGATCACCTTAGAAATGGCAGTAAGCCCAAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
AGTCAAATTCAGAACGAGATGTCATAAAACAGTAAAAATGACTCCCATCCATCCTCTGACAAGGAAGAAGGTG
AGGCCACATCCGATTCTGAATCAGAGGTTAGTGAAATTCACATCAAAGTCAAACCCACAACCAAGTCGTCCACAA
ATACTTCACTGCCTGATGATAATGGTGCTTGGAAATCAAGCAAACAGCGCACATCAACTTCTGACTCTGAGGGGT
CCTGTTCCAATTCGGAACAAATAGGGGAAAGCCACAAAAGCACAACATGGGTCAAAGGAAAATCTTAAAAAGAG
AACACACCAAAAAAGTGAAGAGAAATTGAAAGGAAAAAAGACAAAAAGCATAAGGCTCCAAAACGAAAGCAAG
CATTTCACTGGCAGCCTCCACTAGAATTTGGTGAAGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
AATCAAAAGAGAAAAAAGTTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAAACTGAGAAATCCAGTG
AAGAGGACCTTTGAGGTAAACATGATACAGTGACTGTTTCATCAGATCTTGATCAGTTTACTAAAGATGATAGTA
AACTCAGTATTTCTCCACAGCTTTAAATACTGAGGAAAAATGTGGCCTGTTTACAAAACATTCAGCACGTTGAAG
AAAGTGTTCCCAATGGAGTGAAGATGTGCTTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

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FIGURE 1117B

CCCCAGCAAAAGTAGAGGAGACTTCCCCTCTAGGAAATGCACGGCTTGATACCCAGATATAAACATTGTTTTGA
AGCAGGATATGGCAACGGAACATCCTCAAGCAGAGGTAGTAAACAGGAAAGCAGCATGTCCGAAAGTAAAGTGT
TGGGTGAAGTGGGGAACAGGACAGCAGCTCTGCTAGCTTGCTAGTGTGGAGAAAGTACCGGAAGAAGGAGG
TGGCTGAGAAGAGCCAGATCAACCTCATTGATAAGAAATGGAAGCCCCTGCAAGGTGTGGGGAACCTGGCAGCAC
CTAATGCTGCCACATCCAGTGTCTGTGGAAGTTAAGGTGTTGACCACTGTGCCTGAAATGAAACCACAAGGCTTGA
GAATAGAAATTAAAGCAAAAAATAAGTTTCGGCCTGGGTCTCTCTTTGATGAAGTAAGAAAGACAGCAGCTTAA
ACCGTAGACCAAGAAATCAGGAGAGTTCAAGTGATGAGCAGACGCCTAGTCGGGATGATGATAGCCAGTCCAGGA
GTCCAAGTAGATCTCGAAGTAAATCTGAAACCAAAATCAAGACACAGAACAAGGTCTGTCTCTATAGTCACTCAA
GAAGTCGATCGAGAAGTTCCACATCATCTTATCGATCAAGAAGCTACTCTAGAAGTCGGAGCAGAGGATGGTACA
GCAGAGGCCGAACCAGAAGCCGGAGCAGTTCCTACCGGAGTTACAAAAGTCACAGGACGTCCAGCAGGAGCAGAT
CCAGGAGCAGCTCATATGATCCCCACAGTCGATCCAGGTCTACACCTACGATAGCTACTATAGCAGGAGTCGGA
GTCGAAGTAGAAGCCAGAGAAGTGACAGTTACCACCGAGGCAGAAGTTATAATCGGCGGTCCAGGAGTTGTAGAT
CTTATGGCTCTGACAGTGAAAGTGACCGAAGTTACTCTCATCCCGAGGCCCAAGTGAGAGCAGCAGATACAGTT
GAAAACGTCCGGATACAAATTATATCTTATTTGTAATATCTGGCAACTTAGCTTAAGAAATGTAATGACAGTCT
GTTGTTCTATTTCATATCAGAGGTGAATTTCAAAAATAGACACTTCTTAATTGTTACTGGTTCATTTACATGTG
GGGAGAAGAATTTAAATACAGATATGTCTCTTAAATATTTTTATGCCACATTTTACAGTAGCCAATATGGA
AATGAATTTTCAATTTCTTGAATCAAGAAATCGTGAATTTATCTATGTATAATTTGCAATATTATTTAAGTCTA
TTTCACTCTATCTTACGTATCCCTTAGAATACAGATTCTTTTTGCCTGTTTTTCCAGTTTTAGCATATATGCTGC
CAAGCATAGAAGTGTGAAGGAGAAGTGTAAAGGCGGCCAAATATTTATATACTGATTACATAGAGTCTTGTACA
TATGTGCTCTAAAAACAAACCACCCAGAATTGATACTGTGGTAACCAGGAGTATAAGGCAGTGGCTCTGGGGTT
CTTAATTCATTCTAACTTCTTTGATACTTCACAGGATTAGGAAAGTGGTCATCATACATCCACACAGTCTGTA
TTACTTCAGGCTTGTGGCAAGGTTAGGAAGAATCAATCAGCCTTAACATAAAATACCTGCACTGTCTCTGAGGA
CTTACTATTTTATGTTCTTTTTAATCAATACCGATCAGAAGTTTAGGTTATAAAAACAATTCTACTTCATGCTTT
GGTGCTTGGTAATTTTGGTGCTCTTTAAGCATTACTCTATATATCATATATTAAATACCATAAAAATGAAA
TTCAGACAAAATCACTGGCACAAAATGGTTTATTCTGAGCTGTCTTCACTTTGACTATTTGGGGGGCTTCTCT
CAAGTACAGATGTGGGTTGGGGTCCCCTGGAGCAGGCAGGATTGGCAGTAAGAGATATTGGCCACTCAAGTCTAC
TGTGTGTGTGCTCTGGAAGAGTGAAGAATGGACTTCAAAGTAACATCAAAAATCTAACTGCCACCATCCTG
GAGACATTTTGCAGGGCTTTCCTTTCAAGTCTTTCAAGTACAGGATATTACCACAACAGCAGCTGAACTGTTGTA
ACCAGCATGTTTTTCTATTTCCACTGTGACCTGCAGCTGACTCAAAGCCTTGGGTGACCTGACCCAGGTGCAAG
AGACAGGGGAAGAGGGATAGAGGGTATAGCATAAATTACATATTTTCATGGCTTTGGGTGGTTCTCTCCAAAAATA
ATTGGACCTGTAATAACTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTTTTTTTTTTAATCTTTAC
TTTGAATTTGTTCCCAAGTGACTTAATCACCTTAGTGCCAGTTTAAATCCAGTTATGCAGAAGAAATTCATATT
GGTTGCCCTGATGTAGAGCTCAGCACCACCTACCACAGGCCTGTCTGGTGTATTGGGAAGTGGAAAAGAGCCC
TCAGTTGGAGGGAGCTGACAACCCTTGGTGGAGGGAGGGTGCCCTTGAATGTATTAAACTATCACCCAAAGAAG
GTATGAAAACAGGGTAAGGTGGTCAGTTGTTTGCAGGTCAATAGACAGAAAGTACATTAGAAAACAGGACTTAG
GCCAAACAAACAATACTGGATACTGAATACAAAACAGTATGATTATATTAAAGGTTTCCAAAGGTTGCCTGCAA
AGGAGAATATTACTACTAGTCAGCAGGAAAAAATGCATTGAGAACCCAAGCAGAAACTGCCAAATGTAATTAGG
TTAAGAAAAGTTACCCTTGGGCAGTGTATTAGTTTTCTATTGCTGTGTGACAAATTACCCCAATTTAGCAGTTT
AAAAACAATAACCCATAGCAGTTCTGTAGCTCATGAGTCTGGCAGTGTGGCTGGATTCTCTGCTCAGGGTCTT
AAAGGCTGAAATAAGGGTTGGCAGGACAACATTCCTTCATGGAGGCTCTGGGGAAGAACTGTCTTCTAAGTTCAI
TCAGGTTGTTGGCGGAATTCAGTTCTTTGCTGGCTCTCAGCTGGAGGCCCTCTCTCACCTCAAGGCTGCCTGCA
TTCCTTCTTATGTGGTCCCCTCCAGCTTCAAACAGCCTTCTCTGCTCTTTCTCATGCTTCATATCTCTCTCCCGT
CCTCTGTTTTAGGGGCATATGATTAGCTCAAGCCACAGATATATTTAAGGTTGATTGTGCGATAGAACATAA
TTGCAGGAGTACTGTCTCATCTCATATATTACGGGTTCTGGAGATTAGCTCATTGAAAGTGGGAGGGGCATTT
TCAAATCTGCCTACCACAGGCAATAACTGCCCATCTCAGCTGTAGGTGGAATTTTACCAGAAAAGATAGGCC
CTAGAAGCCTCATTCTTTTCTCATGGAAAAGGACAGCCCTCTGCTGCAGCGTTCAACTTGTGTGTTTACTGAC
AGAGTGAAGTACAGAAATAGCTTTTCTTCTAAAGGGGATTGTTCTACATTTTGAAGTTATTTTTAATAAAAT
GAATTATGTTGT

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FIGURE 1118

MGAQDRPQCHFDIEINREPVGRIMFQLFSDICPKTKCNFLCLCSGEKGLGKTTGKKLCYKGSTFHRVVKNFMIQG
GDFSEGNGKGGESIYGGYFKDENFILKHDRAFLLSMANRGKHTNGSQFFITTKPAPHLDGHVHVFGLVISGFVI
EQIENLKTDAASRPYADVVIDCGVLATKSIKDVFEKKRKKPTHSEGS DSSSNSSSSSESSSESELEHERSRRRK
HKRRPKVKRSKRRKEASSSEEPNRKHAMNPKGHSERSDTNEKRSVDSSAKREKPVVRPEEIPVVPENRFLLRD
MPVVTAEPEPKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDDSDSETPPHWKEEMQRLRAY
RPPSGEKWSKGDKLSDPCSSRWDERSLSQRSRSWSYNGYYSDLSTARHSGHHKKRRKEKKVKHKKKGKKQKHCRR
HKQTKRRILIPSDIESSKSSTRMKSSCDRERSRSSLSSHSSSKRDWSKSDKDQVSSLTHSSRDSYRSKSHS
QSYRGSSRSRTASKSSSHSRSRSKSRSSSKSGHRKRASKSPRK TASQLSENKPKVTEPLRATMAQNENVVVQPV
VAENIPVIPLSDSPPPSRWKPGQKPWKPSYERIQEMAKTTHLLPIQSTYSLANIKETGSSSSYHKREKNSESDQ
STYSKYSDRSSESSPRSRSRSSRSRSYSRSYTRSRSLASSHSRSPSSRSHSRNKYS DHSQC SRSSSYTSISSD
DGRRAKRRRLRSSGKNSVSHKKHSSSEKTLHSKYVKGRDRSSCVRKYSESRSSLDYSSDSEQSSVQATQSAQEK
EKQGMERTHNKQEKNRGEEKSKS ERECPHKKRTLKENLSDHLRNGSKPKRKNYAGSKWDSESNSE RDVTKNK
NDSHPSSDKEEGEATS DSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSSKQRTSTSDSEGSCSNSENNRGKPQ
KHKHGSKENLKREHTKKVKEKLKGKKDKKHKAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSDLQFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPLGNARLDTPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVGKQDSSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQGLRIEIKSKNKVRPG
SLFDEVKRTARLNRRPRNQESSSDEQTPSRDDDSQSRSPSRSRSKSETKSRHRTRSVSYSHSRSRSRSSSTSSYRS
RSYSRSRSGWYSRGRTRSRSSSYRSYKSHRTSSRSR SRSSSYDPHSR SRSYTYDSYYSR SRSRSRSRQSDSYHR
GRSYNRRSRSCRSYGSDSESDRSYSHRSPSESSRY

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FIGURE 1119

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTTCGTGCCGAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTGCAAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGCAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAGGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTGATCGAGTCAAG
ATGAGTTAGTGGAGCTGGGCTTGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTATTTTGAACCTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1120

MLARAARGTGALLLRGSLLASGRAPRRASSGLPRNTVVLFVPQQEAWVVERMGRFHRILEPGLNILIPVLDRIY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRRER
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQQAQ
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSASFSLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 1121

TGTATTCAATGCACTGGATTGATGGAAAAATAAGACATTCTTGGAAAACTCAAGTTTGGTATAGGAGATGGCAA
TTTGCAGTATTACCTGTACAATTGGAGGTGTCCAGGTACAGATTCTGAAAAGGGCTCTGGTAACTTCGTTAACGC
CAATGGCAAGCTGCTTCTGACGTGTGCAGGCGTCCACCCTGACACTTGCTGCTTAGCATCTGTTTTCTTCTCCT
TCAGATTCTCACTAATATCAACAGCAATGCTGCATTTCTCTCTGCTTTCTTTTTTCAGAAAAGGTGTTTTGTTCT
TTTTCTTCTTATCTTCAATCTTCTGAAGTCCAATAGCTTTAAGCCTGTCCTCAAGCGTCTGTAGGATGAAGTGCA
TATCCTCGCTCTCCAGAGCGCTCCAGCGGATGATGTATGGGTTGTTCAACGACGCTCTCCACAACCAGAGGTCTCG
TCTTACGAGAGATCCCCGCCCCGGTGCTTGAGGAGCTGCAGCCATTTTGAAAATCCTTCCAAGAAGCAAAATGA
CAACAGAAAAAATTCATGTAGCGACAACCTGCATGACTTAAGAATATCTTGACTGTACTCTCTGATTCTTATTTA
TTTATGTATTTATTTTTTGAGACAGAATTTCACTCTTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCAGCTC
ACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCC
GCCACCAAGCCCAGCTAATGTTTCTATTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTC
AACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCC
CGGCTGTACTCTGATTCTGGATAAGCTAGAGCAAGCCTGATTATATAAGTCCAATTAGGTGAGCATACGCTTGT
CTTCCTTTTAAAGATTAAAGTATTTTATTTTTCCCCATTTTTCTTACCCGATTTTGAATGCTCTACGAAGGCTCT
TTAAAATACTCAGGACTATGGGTGAGTAGTGTAAATTTTCCCCATTTTTTATATGACTTTGTCTTTAATTCCTA
TACAAGCAATATGTGAAAGTTTAAATTATTGCAATCATAGTACAATTCCATTTGTCTATTTCAATTTATTAATAAT
ATTCTGTTTCTACTTGTTCAATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1122A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCTCCCCTGGACCCGCCGAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTCAACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAACTTTGA
GGACAGGAATGCATTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCAAGCT
CATGAAGTTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCCTACCTCCTGACCTTGGCAAGTTCATCAACATGTTTGCTGTCTGGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCCTCTGCCTACAAGAGGGCAGCACAGTTCTGCGGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGAGAACCTTTCCATGTTTCTGGCCAACCACACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCAGTGAGAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAATGTACAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGACAAGTCCAAGTGGAGCTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTGAGATCCGGGATGACCACATCCGCTTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCTTGGAAGCTGGTTTCATCCACAGACAAGTT
CTGCAACAAGGACTGTCTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACAGTGAGGAAAA
ATTTGCCTTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCTGCGGCA
GGCGGTACGGAAGAAGAAGATGTCTCATCAGCGTCTACAGGCAATTCGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGTGTGGGGCCATCCAGCACACAGCTGTACATGGTGGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTACAAACA
GTCTTCTTCTTACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGAGTTAACCATGGGCGCAGCAATCCAGTTCCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTTGAAACCAAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTTCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTT
GGATAACGTTTTTCGAGCTGAGTGAAGAATTATGGCGTCATCATTCGATCCACCGTCCAATCGTATGAAAC
ACTGCTGAAGCAGAGACAGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAAGTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTGTGCGGACTGCCATTCTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCA
CAGCCACATCTACAGCTCCTACAGGAATTTGCTGGGGCCACCTCATTCAAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTCATGGAGGAAGTCTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGAGAGCTCAAACAGACGTTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCTCTTCTGCTCTCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTGCT
CCATGCCGACCCCTTCCAAAACATCTTGCTTAGAGTCTACATCAAAGAGGGGGAGCGCTGGAGGTCCGGATGAA
ACGCTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAAATCGC
CATTGCTCGGAGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCTGTCCATGTTTCGAGGTTCATCTGAC
CCGCAATCGGAGCTACCTGCAGGACCCCATCTGGCGGGGGCCACCGCCACCAATGGCGTCATGCACGTCGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTACTGCATCCCTGTGGGAACCAACGAGTTCAC
AGCTGAGCAGTGTTCGCGATGGCTGAACTGGGTGGTTGCTCCATCATTGTCTGCTGGGCCAGCAGCGTCG

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FIGURE 1122B

CTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGCCACCACCTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1123

APARGPAVASGPSGPAAEPVQNTETAAMTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSCSRRAIPQVKCNEQPNRVEIYEKTVLEVLEPEVTKL
MKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIIYKLDKAKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLHVPTDKF
CNKDCPGTAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLESLIADK
SGSKKTLRSSLDGPIVLAIEDFHKQSFFFTHLNISEALQQCCDLSQLWFFREFFLELTMGRRIQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTFFKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIIPPNSRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGVPPHFKTICRLLGYQGIADVMEELLKIVKSLLQGTILQY
VKTILIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAEKTDVFSLEEVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDP IWRGPPPTNGVMHVDECVEFHLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWVGCSIIIVLLGQQR
FDLDFCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPPIHQ
SLATTC

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FIGURE 1124

GCTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAGCGGCACCCGCGCTCCTGCAC
CAGGGACTGTGCCGAGCCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCCCCTGGAGGAGCTGGATCACCTCCT
GCTGCTGGCGCTGATGACCGTGCTCTTCACTATGTGTTCTCTGCCCCTAATTTATCGCGCTTACTATGGAGCATT
TAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAGAAGACCTCCGAGCCTTGCGATTTCTATCTGIGAT
TTCAATTGIGGACCCTTGGATTTTATCATTTCAGATCTCCAGTATTTCCGATATTTTTTACAAGATTTTCAT
TAGACCTCTTAGGTACAGGAGCCGGTGCAGCAATCCACTAACATGGAATCCAGTCTGTGACAGTGTTTTCACT
CTGTGGTAAGCTGAGGAATATGTCACATTTTCAGTCAAAGAACCA

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FIGURE 1125

LCNLGAMRNLYAMHRRQLQRHPRSCTRDCAEPRADGREASQPLEELDHLALLALMTVLFTMCSLPVIYRAYYGAF
KDVKEKNRTSEEAEDLRALRFLSVISIVDPWIFIIFRSPVFRIFFKIFIRPLRYRSRCSNSTNMESL

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FIGURE 1126

CTTATTTTCAACTCCCGAGTGGCTAGACAGGAAAAAGAAAGAAATGATGTGAGGAAAGTTGGGAAGCTCTGCACA
GTGATCCCTGAGAGCCCTGGCACCACCTTAGGAGACGTGGTAGGTCACTCTGTACATGTTCTTCCCTCAGCAAGGG
GGGTTTTCCCAAAGGGACACAAGAAGAAATCTTACTCAGTGGAGTAAATGGAAAGAAGAGGGAGCATGTCTGTC
TGGTTCCTTCTATTTCTCCTTTCTCAGAGTCAAGTTTACCCACAGGGAGTTCACGCTTCCATGTTGCCTCA
TCCAGCCCTTCAGGAAGCCAGAGTCTGTGCTCCAGTGTGGCATTTCAGCCAACCTAGAAATGAAGGGTGACTTAG
CACAGAGAGGTTCAACAAGTGGGGCATGCAGGCCACTGATCTCTGCAAGGGCAGCAGTGCCGGGTGCTCTGGGA
TACAGGCAGTGCCTTCGGAAAGAAGGGCAATTGAAGACAGTTGAGAAGGTGAACAAAGTTTACATCTAACAAATT
TTAAAGTTTATTATTTTTATTTTTATATTCTTGGGGTCTCACTATTTTGCCAGGCTGGAGTGCAGCAGCTATT
TGCAGGCTGAATCCCACTACTGATCAGTACTGGAGTTTTATTTTATTTAATTAACCTATTTATTTTGAGACAGAG
TCTTGCTCTATTGCTCAGGCTGGAGTGCAGTGTGCGATCTCGGCTCACTGCAGTCTCGACCTCCAGGCTCAAT
CGATCCTGCCACCTCAGCCTCTGGAGTAGCTGGGACTACCTGTAGGTGCGTGCCACCACGCCAGGTAATCTTTT
ATTTTTTTGTAGATACCAGTTATCCTATGTTGCCAGGCTGGTCTCCAACCTCTGGGCTCAAGCAATCCTCCCACC
TCAGCCTCCCTAAGTGCTGAGATTACAGGTGTGAGTCACTGTGCCAGCCAACCTGGACTATTCTAAATTTTAAC
AGTGCTTAAGAGAATCATGCTTAATTAATAAAGTCTGAGCTGGAGTGGTGGCTTACGCCTGTAATCCAGCACTTTGG
GAGGCCGAGATGGGCGGATCCCTTGATTCCAGGAGTTCGAGTCCAACCTGGGCAGCACGAAGAAACCTCATCTC
TACCAAAAAATACAAAAATTAGCCAGGCATTGTGGTGTATACCTGTAGTCCCAGCTGCTTGGGAGGATGAGGCAGG
AGGATTGCTGGAGCCTGGGAGGTGGAGGTTGCAAAAAATAATGACTTTTAGTGTTACTGCAGATGCAACGCATG
TTCAGTGTAGACCAATTTAAACTATAGATAAACCAAAACAACAACTTTTCTTTTTTTAAGAGACGGAGTCT
CGCTCTGTGCCCAGGCTGGAGTGCAGTGGTGCATCTCGGCTCGCTGCAACCTCAGCCTCCAGGTTCTAGCAA
CTCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGCGCACACCACACCCATCTAATTTTTTGTATTTTAG
TAGAGACGGGGTTTACCTTGTTATCCACTGTGGTCTCAAACCTCTGAGCTCAGACAATCCGCCCGCCTCGCCTC
CCAAAGCGCTGGGATTACAGGGGTGAGCCACCACACCCGGCCAAGAACTTTAAATACTACCTAGAGACAATCCC
TTTTAAACCTTTAGTGATGTCTTTTTATACCATTTCTAGGCTTCTAGGCTCATTGCAAAAATGAGATACCAC
TGTAATACTTAATCTGTAAATTATCTTTTTCAGGAGTCTCTCTGAGTCTCTGGCTCAGGGAGCTGTCTATAA
CATAAATAAGTAAATTTTTTTTTTACAATGGTTGTTGAAGATACTAATAAATATTAGGGCTGGGCACAGTGGTT
ATAGCTGTAATCCCACCACTTCGGGAGGTCAAGGTGGGAGGATTGCTTTAGCCCAGGAGTTTGAAGACCGCTGG
GGAACATAATGAGACCCATCTGTAAAAAAGAAAATTAAATTCACCTTTAGTATTATCTTATTAATAATCCATTG
TGCATTTACACAATCATTTACCTTATCAGTCCCTTCAGAAGAACATTTAAGTTGTTATCACTTACATCCTTGACG
CTAAATCTTTGAGTACATCCTAATACCTGTCTGTTTTTAATGACCTATCTAAGGAATCCTTTGAAACCTATACAC
TTAACCAGTGTGTTAGCTAAGAGCCTCCAAAAAGGCTGGGTGTGGCGGCTCATGCCTGTAATCCCAGCACTTTGG
GAGTCCGAGGCGAGTGAATCACTTGAGGTCAGGAGTTCGAGACCAGCCGGGCCAACATGGTGAACCCCGTCTCT
ACAAAAATGCAAAATTAGTTGGGCATGGTGGCTCACTCCTGTAGTCTGGCTACTCAGGAGGATAAGTGGAAAG
GATGGCTTAAGCTCAGGAGGTAGAGATTGCAATGAGCCGAGATTGTGCCACTGCACTACAACCTGGGCAACAGAG
CCAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1127

CTTGTCCTCCCCTGGTTTGTGAAGTGCAGGAAACCAGAGGCGCAGTCAATGTCGGGATTTCGACGATCCTGGCATT
CTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGGCAGGCCCCGCAAATCGCAGCTGCAGAGGCGCTT
CAAGGAGTTCCTGCGGCAGTACCGAGTGGGCACCGACCGCAGGGCTTCACCTTCAAATACAGGGATGAACCTAA
GCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC
CGACTACTTGTAAGCAGCCAGCCAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGT
GACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGACATCCAGGTCTGCTCAAGTCGGACGCCAGCCCTTC
CAGCATTCGTAGCCTGAAGTCGGACATGATGTCACACCTGGTGAAGATCCCTGGCATCATCATCGCGCCTCTGC
GGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGGCGCAGCTGCCGCAACACCCCTCACCAACATTGCCATGGC
CCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAACACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGA
CCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGACTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGC
AGTCCCCCAGGGGAGATGCCAGACACATGCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTGCTCCCTGG
GAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAAGTTTGGCCTGACCACCAGCAGGGGCGTGACAGGGT
GGGCGTGGGCATCCGAAGCTCCTACATCCGTGCTGCTGGGATCCAGGTGGACACAGATGGCTCTGGCCGAGCTT
TGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGTTCGCTGCGCTGGCTGCCCTCCCAAATGTCTATGAGGTGAT
CTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGACATGAAGAAGGCCATTGCTGCTGCTCTTTGGGGG
CTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCCTGGGAC
AGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTCTCCCATTTGGGGTATACACGCTGAGGAAAGGCAGCAG
CGCAGCTGGACTGACAGCTCGGTGATGAGGAGCCCTTCGCTCCGGAATTTTCATCATGGAGGGCGGAGCCATGGT
CCTGGCCGATGGTGGGGTCTGCTGATTGACGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGA
AGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGGGATCACCACCACCCCTGAACCTCCCGCTGCTCCGTCTT
GGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGACGAAGGGGGAGGACAACATTGACTTCATGCCACCAT
CTTGTCGCGCTTCGACATGATCTTCATCGTCAAGGATGAGCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCA
TGTCATCACTCTGCACGTGAGCGCACTGACACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAA
GAAGTTTATTGCCTACTGCCGAGTGAAATGTGGCCCCGGCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACCG
CTACATCATCATGCGGAGCGGGGCCGTCAGCACGAGAGGGACAGTGACCGCGCTCCAGCATCCCCATCACTGT
GCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGC
AGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCACGTTGGATGCTGCCTTGTCGGGTACCCTGTGAGGGGT
GGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAGCCGATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT
TGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTTCACCAAGCAGAAATACCCGGAGCACGCCATCCACAA
GGTGCTGCAGCTCATGCTGCGGCGGGCGAGATCCAGCATCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTG
AGTCGCGCCGCTCACTGGACTCATGGACTCGCCCCAGCCTCGCCCCCTCTGCGCTGCTGCCATTGACAATGT
TGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTTCCAGGCACCCCTCCTTTCTGCCCCAGAGGAAGGAGC
TGTAAGTGTCTGCTGCCTCTGGGCGCCGCTCTAGCGCGGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAA
TAAAGCCACGGTGTGTTTCAGGTAAAAAAAAAAAAA

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FIGURE 1128

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDAPVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIO
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMETILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHVKVLQMLRRGEIQHRMQRKVLYRLK

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FIGURE 1129

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTATCGAGGCTGAACCTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCCTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTCCGGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGCGGGGACCGGCCCTTCAAGCCCTACAACCTTCTTGCGCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCCGACAGATCTTCTGGAGATGGGGTTACCCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAACGTGTGCGTCAATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGACATGGGCCACTCTAGGACAGGTATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTCCACCTGTCCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCA

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FIGURE 1130

MADGQVAELLRRLEASDGGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRGGQAEK
LGEKERSELKRKLLAEVTLKTYWVSKGSFSTSIKQETELSPMISSGSWRDRPFKYPNFLAHGVLPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPIDNFISSFWNFDALFQPQQHPARDQHDTFFLRDPAEALQLPMDYVQVRKTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLRFFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMQVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 1131

GAATTCGGGCGTGGGCGCGGGGGCGCGCGTGCGGCACGCTGCAGGGCTGAAGCGGCGGCGGCGGTGGGGACTGC
ACGTAGCCCGGCGCTCGGCATGGCTCTCCTGGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAATGG
TCTGTATTCTCTAGTGATGATGTGATCGAATTAACCTCATCAAATTTCAACCGAGAAGTTATTCAGAGTGATAG
TTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAATGGAAGAAAGCAGC
AACTGCATTAAAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGG
TGTTCAAGGATTTTCTACCATTAAAGATTTTTGGATCCAACAAAAACAGACCAGAAGATTACCAAGGTGGCAGAAC
TGGTGAAGCCATTGTAGATGCTGCGCTGAGTGCTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGGACGGAGCGG
AGGATACAGTTCTGGAAAAACAAGGCAGAAGTGATAGTTCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACAG
CTTTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCTCCTTGGTGTGGACACTGCAA
AAACCTAGAGCCAGAGTGGGCTGCCGCAGCTTCAGAAGTAAAAAGACAGACGAAAGGAAAAAGTAAAAGTGGCAGC
TGTGGATGCTACAGTCAATCAGGTTCTGGCCTCCCGATACGGGATTAGAGGATTTCTTACAATCAAGATATTTCA
GAAAGCGGAGTCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGATTTGTT
TTCTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCA
CCAGCTCTGTGTTGTGGCTGTGCTGCCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATTCCTTATCTGGAAGT
TCTTCTGAAGTTGGCAGACAAATACAAAAAGAAAATGTGGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTCTGA
ACTTGAGACCGCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATGAAATT
TGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAGCTCTCTTTTGGGCGTGGCTC
CACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTTGAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCT
TCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTTGATGACTTAGGGAAAGATGAGTTGTGAGAGCCACA
ACAGAGGCTTCAGACCATTTCTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACTTT
CTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACACTCAGATGACTCTACCAGTGGCC
TTTTAACCAAGAAGTAGTACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACTTTTCATCTCAAGAAAACA
TTGAAAAATTCTATGAATTGTTGTAGCCGGTGAATTGAGTCGATTCTGTACATAATATTTGAAGAAAACCTTG
GCTGTCGAAACATTTTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTTTCTTATGTATGGGTTTTTTTT
AATGTGATCCCTTCATTTGAATATTAATGGCTTTTCCATTAAAGAATAAATTGGAAAAAAGAAAAAAGAAAAA
GGAATTC

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FIGURE 1132

MALLVLGLVSCFFLAVNGLYSSDDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDV
VKVGAVDADKHSLGGQYGVQGFPTIKIFGSNKNRPEDYQGGRTGEAIVDAALSALRQLVKDRLGGRSGGYSSGK
QGRSDSSSKKDVIELTDDSFKNVLDSEVVMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGKVKLAAVDATVN
QVLASRYGIRGFPTIKIFQKGESPVVDYDGGRTSRDIVSRALDLFSDNAPPPELLEIINEDIAKRTCEEHQLCVVA
VLPHILDTGAAGRNSYLEVLLKLADKYKKKMWGLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGS
FSEQGINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELPVEDDIDLSDELDDLKDEL

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FIGURE 1133

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGAACCACTC
ATTCACCTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATACCTGAGAT
CTATGATCCCATCTCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGAAAACTTCTTGCCAACCAAACCTGGTCAAAATGTCTTTGGAAGTTTCTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGAGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTGATGAAGCACAAAAAGTCATATATACTC
TTATGGAAAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGCTTGACAGGCCAAGAAGAACAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACCTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTGCGGTGATTTTATTTTATTGTTTTGACTTTGGAAGAGATGAACTGTGTA
TTTAACTTAAGCTATTGCTCTTAAAACCAGGGATCAGAATATATTTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAACTTGCATTT
ATTCCTCAGATTTTAAAAATAAATAAATAATTCAATTTAAAAA

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FIGURE 1134

MPGMFFSANPKELKGTTHSLDDKMQRKPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVLAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSK

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FIGURE 1135

GAATTCGGGCAGGCACAACTCATCCATCCCCAGTTGATTGGAAGAAACAACGATGACTCCTGGGAAGACCTCAT
TGGTGTCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAGGAATCACAATCCCACGAAATCCAGGAT
GCCCAAATTCTGAGGACAAGAAGCTTCCCCGGAGCTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATA
CCAATCCCAAAAGGTCTCTCAGATTACTACAACCGATCCACCTCACCTTGGAATCTCCACCGCAATGAGGACCTG
AGAGATATCCCTCTGTGATCTGGGAGGCAAAGTGCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACT
ACCACATGAACTCTGTCCCATCCAGCAAGAGATCCTGGTCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCT
TCCGGCTGGAGAAGATACTGGTGTCCGTGGGCTGCACCTGTGTACCCCGATTGTCCACCATGTGGCCTAAGAGC
TCTGGGGAGCCCCACACTCCCCAAAGCAGTTAGACTATGGAGAGCCGACCCAGCCCTCAGGAACCCCTCATCCTTC
AAAGACAGCCTCATTTCGACTAAACTCATTAGAGTTCTTAAGGCAGTTTGTCCAATTAAAGCTTCAGAGGTAAC
ATTGGCCAAGATATGAGATCTGAATTACCTTTCCCTCTTTCCAAGAAGGAAGGTTTGACTGAGTACCAATTTGC
TTCTTGTTTACTTTTTTAAGGGCTTTAAGTTATTTATGTATTTAATATGCCCTGAGATAACTTTGGGGTATAAGA
TTCCATTTTAATGAATTACCTACTTTATTTTGTCTTTTTAAAGAAGATAAGATTCTGGGCTTGGGAATTTT
ATTATTTAAAAGGTAAAACCTGTATTTATTTGAGCTATTTAAGGATCTATTTATGTTTAAAGTATTTAGAAAAAGG
TGAAAAAGCACTATTATCAGTTCTGCCTAGGTAAATGTAAGATAGAATTAAATGGCAGTGCAAAATTTCTGAGTC
TTTACAACATACGGATATAGTATTTCCCTCCTTTGTTTTTTAAAAGTTATAACATGGCTGAAAAGAAAGATTAAA
CCTACTTTTATATGATTTAATTTAAATTTTGAATTTGTTGAGGTTTTACAAGAGATACAGCAAGTCTAACTCTC
TGTTCCATTAAACCCTTATAATAAAATCCTTCTGTAATAATAAAGTTTCAAAGAAAATGTTTATTTGTTCTCAT
TAAATGTATTTTAGCAAACCTCAGCTCTTCCCTATTGGGAAGAGTTATGCAAATTTCTCTATAAGCAAAACAAAGC
ATGTCTTTGAGTAACAATGACCTGGAAATACCCAAAATTCCAAGTTCTCGATTTTACATGCCTTCAAGACTGAAC
ACCGACTAAGGTTTTTCACTATTAGCCAATGCTGTAGACAGAAGCATTTTGATAGGAATAGAGCAATAAGATA
ATGGCCCTGAGGAATGGCATGTCTATTATAAGATCATATGGGGAAAATGAAACCTCCCCAAAATACAAGAAGT
TCTGGGAGGAGACATTGTCTTCAGACTACAATGTCCAGTTTCTCCCTAGACTCAGGCTTCTTTGGAGATTAAG
GCCCTCAGAGATCAACAGACCAACATTTTCTTCTCAAGCAACACTCCTAGGGCCTGGCTTCTGTCTGATC
AAGGCACCACACAACCCAGAAAGGAGCTGATGGGGCAGAATGAACTTAAGTATGAGAAAAGTTAGCCCAAGTA
AAATAAAACTCAATCACATTCAATTCCAGAGTAGTTTCAAGTTTACATCGTAACCATTTTCGCCCGGAATTC

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FIGURE 1136

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPWN
LHRNEDPERYP S VIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTP I
VHHVA

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FIGURE 1137A

GGCACGAGGCACGTGGGTTCTGAGCGTGTCTACGTCCCTGGAAGCCGGTCATTTAAGCTCATTCTCGCCACG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTGAG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCCTTGGCGTTGGGCAAAA
GCGAAGCCCCGGAGACGCCCATGGAAGAAGAGGCGGAGCTGGTTCTCACCAGAAAGTCCTCGGGTACCTTCTGTA
GTGGCCTTTCCGACTGCACAAACGTACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCACA
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTGCTCCAGGGAGGGAAGGAGACGGAGACTGAGT
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTGCTTACCTGCTGA
ACCTTGCTCTGAAGCGTGTTCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA
TCATGTGCTCAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTCTGCTGGCCACCCTTCTGC
GGAAGCAAGACCTGGAGGCCTGGGGCTACCCCGTGACCCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
ATCCCAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCTCAAGGGCAGTGAATTCATGTTTG
AAAAGGCCCTTGCCCATCATCTGCTGCCATTTCCACTGCCAAGTTCTGCATCCAGGAGATTGAGAAGCTGGAG
GCTCCAAGGAGGCCACCACCACGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTTACAGCCTCTTCCACGCCAGGCCTGGCCTGAGCACCCTGTGACGAGCTCAACGCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTACAACCCCTGCTAGCCTGGCTTAAGGTGATGGAGAAAG
CCACATCAACCTGGTGAGGTTGCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA
CCTGCTCCTTTTCCACACTCGCAAGTGCTGACTGCTGCTACGCAGAGCCTCAAGGAGATCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGGCCTCAGGCCCTGCCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGGAGGAGGGCCTGACGTACAAATTCATGCGCCTGGAGCTCCGTGTTGCAGCTGCTGTGTGTCT
TCTTCGAGGCGTGTGGGAGACAGGCCACCCTGTGATGAGGAAGTGCCCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCCCTATTTCCCCACACGGCGGCTCTTGACCAGGCAGTGGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGCAGGCTGTGCCCTTTGGAATTTGATGGCTCTGAGGAGACTCTGGATTTCACCGAGCTGGCTGCTGCCCTG
TCATCCGAGACCATGTTAGGAACGCGACTTGGTTTTTTTACCACCTACTTCTTGCCCTGGCTAACACCCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCTCATCACCAGG
GCTGCCAGGCAGAGGCTGACCGTGTGAAGTGAGTCGCTTGCCAAGAATTTCTGCCGATCTCTTCAACCTGT
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCTCGCCGGGCTGTGCTGGAACCATCAGAAGTTACCTCA
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGAAGAAAGCCAGTGAGAAGGTGCTCGACCTGCCAGCTCTG
ACTTTACCAGATTGTCTGCTGCTGACCTGGTCTGCTGGCCTTGGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGAGAAGAAGGCCTACCGAGTGCTGGAGG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGACAGGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCACCTCCTCACCGCCAAGAGGCCCGTTTGAAGTGCCCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTCACTGCCCCATCCAGAGGTGATCCTGTGCACCAAGGAGGTGTCGGTGG
GCGCACGGAAGAACGCTTTTGCAGTCTGCTGGAGATGGGCCATGCTTTCTAAGGTTTGGCTCGAACCAGGAAG
AGGCCCTGCAGTGCTACCTCGTCTGATCTACCTGGCCTGGTGGGCGCGGTGACCATGGTCAGCTGCAGCATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACCAAGTACAGTGGAGCAGCTGCTGGAGAATG
TGTGCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGAAGT
TCATGGACGTGGCGCACCTGGCCAAACATGTGACGTGGTGTGGAAGCCATTGGGAAGCTTTTTCAGATGACATGC
GGCGGCATTCGCGATGAAGCTTCGGAACCTGTTACCAAGTTCATCCGCAAGTTTGGATTTGAGCTGGTGAAGA
GGCTGTTGCCGAGGAGTACCACAGAGTCTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCACCGAG
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAGGTGACA
GCATTGAGGAGATTTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCAGACAGAGGAGCCGGCATGGCTGAAAGAGGCGGTGGGGACGAGCCCTCAACTTCCTGG
ATCCCAAGGTGGCCCAACGAGTCTGGCCACGACCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 1137B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCGGCGAGGTTCCAGGTGGGACAAAAACCGCAGAAAGGATCGTCGAC
CCTGAGGCCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGGCTCTCAGAAGTC
CTGGATTTTGGAACTCCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCTCA
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1138

MGRSGKLP SGVSAKLKRWKKGHSSDSNPAICRHRQAARSRRFSSRPSGRSDLTVDVAVKLHNELQSGSLRLGKSEAP
ETPMEEEEAEVLVTEKSSGTFLSGLSDCTNVTF SKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETEFYFAA
LMTTMEAVESPE SLAAVAYLLNLVLKRVPSVLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPVTLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTTLHMLTLLKDLLPCFPPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSLTAELNAQII ITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPVMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKSKA
MDLAQAGSTVESKIYDTLQWQMWILLPGFCTRPTDVAISFKGLARTLGMAISERPDLRVTVCAALRTLITKGCQA
EADRAEVS RFAKNFLPILFNLYGQPVAAAGDTPAPRRVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEVCASPQGPALFVQSHLEDLKKTLTLLDSL
RSTSSPAKRPRLLKLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAFLRFGSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTD VVKSALGFIKVAVTVM DV
AHLAKHVQLVMEAIGKLSDDMRHFRMKLRNLFTKFIKFGFELVKRLLPEEYHRVLVNIRKAEARAKRHRALSQ
AAVEEEEEEEEEEP AQKGDSIEEILADSEDEEDNEEEERSRGKEQRKLARQRSRAWLKEGGGDEPLNFDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLIIREEADGNKMEEEEGAKGEDEEMADPMEDV IIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMPGA EYKAKKAKGDVKKKGRPDYAYIPLNRSKLNRRKKMKLQGGQFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 1139

GATAAACAACTTGATGCAGATGTTTCCCCAAGCCCACTATTTTTCTTCCTTCGATTGCTGAAACAAAACCTCCAG
AAGGCTGGAACATACCTTTGTCTTCTTGAGAAATTTTTCCCAGATATTATTAAGATACATTGGCAAGAAAAGAAG
AGCAACACGATTCTGGGATCCCAAAGACAATTGGTCAAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAA
CACCTCTGCATATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCT
GCTTGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCT
CATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTCAGTT
CTCATGTGTGTACTAATTCTATCTATTGTATAATGGTTTTCAAACCAAGTGGGCACACAGAGAACCCTCACTCTGTAA
TAACAATGAGGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCA
AATAGCGCCTGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCCTCTCTTAGTGTTCTTTAATCAGATAA
CTGCCTGGAAGCCTTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTTC
GTAATAAGCAAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 1140

CAAGGCTGAACGTCCAGGTCACCTCCACGCCCCGTGATCGTGATGCGCGGGGCTGCTGGCCTGCAGCGGGAGATCC
AGGAGGGTGCCTACTCCGGGAGCTGCTACCATCGAGATGGCTTACGGCTGAGTATACAGTTTGAGGTGAGGCGGG
TGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGTGAAAGACCTCCTCCACAGCCAACGCGACTCAG
CCGCCAGGACCCGCTGTTCTTGCCAGCCTGCCCGGCTCCACCCACTCTACCGCTGCTGAGCTCACC GGACCCA
GCCTGGTGGAAGTGC TCAGAGCCAGACCCTGGTTTGAGGAGCCCCCAAGGCTGTGGAAGTGGAGGGGTTGGCGG
CCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCCGCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGA
CTGCTGTGGACAAGGAAAAAACAAGGAGGIGGTGGTGAAGTTTATTAAAGAGGAGAAGGTCTTGAGGATTGTT
GGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGCAATTCTATCCAGGGTGGAGCAGCCAAATATCA
TCAAGGTATTGGATATATTTGAAAACCAAGGGTCTTCCAGCTTGATGAGGAGAAGCACGGCTCCGGCCTAGACC
TCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCCCTGGCGAGCTACATCTTCGACAAGTGTGTCAG
CAGTGGGATACCTGCGCTTGAAGGACATCATCCACCGTGACTTCAAGGATGAGAACATCGTGATCGCCGAGGACT
TCACAATCAAGCTGATAGACTTTGGCTCGGCCCGCTACTTGGAAAGGGGAAAATTATTTTATACTTTTGTGGGA
CCATCGAGTACTGTGCACCGGAAGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGG
GAGTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATAC
ACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCA
CCACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGG
TGTTTCGAGTAAACAAGCCAGAAAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTG
ATGTGGCCCAGGCTCAGGAGCTTTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATC
CCGGGGATCCCCGTCTGCTGACCAGCTAAACACCAATTTCTTCCTGCTTTTCTCCACTTGGTTTGGAAAATCACA
CAGTTTTCAGGCTCCATCTGTTTGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAAACTCATGTG
CAGGTTTGATAAACACCAGAACAGAAGACAGTGATGCTGTATTATTTAGATTTATTACATAGATTGGAATTCA
CTTTTTTCATGACCTAGAAAAAAACATTCCAGTGTTCAACTGTTTTATATTATTAAGGGCTTTTAATTTGTGAA
CTTCTGAAGGCATGAGTGTCTTTCTTTCTACTTTTGTATATGTGCATGTTTGTTCCTCTGACTTGGTATATG
CTCATCTGAGTGACGGATATGTGAAATTTGTAGAACTGGTTAGTCAAATGGCCAGACTATTTCAATTAATTTATTT
CCTCAAATGCTTTTCAAATTAAAGCACCTTTGTAGTAAACAGTTAAAAA

A

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FIGURE 1141

GAATTCCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCCTTTGTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTACCAATAATAGTCTCGTGGAACTGGGTGATCTGG
ACCCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGGTTTGCCAAGTACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTGTAAATATAAGTT
TTGAAATCTAAATGTCAATTTCTACAAATTATAAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 1142

MVKLTAE~~L~~IEQAAQYTN~~A~~VRDRELDLRGYKIPVIENLGATLDQF~~D~~AIDFSDNEIRKLDGF~~F~~LLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNN~~S~~LVELGDLDPLASLKSLTYLSILRNPVTNKKHYRLYVIYKVPQVRVLD~~F~~QKV
KLKERQEAEKMF~~K~~GKRG~~A~~QLAKDIARRSKTFNPGAGLPTDKKRG~~G~~SPGDVEAIKNAIANASTLAEVERLKGL~~L~~Q
SGQIPGRERRSGPTDDGEEEMEEDTVTNGS

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FIGURE 1143A

CGGCCCGGCGGTAGGCGGTGGCGACTCTGCCCGCTCCCGTTTCGGCGCGGTGACCGAGCGCCCGGGAGGCTCGAG
GACCGCATCGTGTGCCGTTGCGCCAAGCCCCGGTCTGCGCCGCCATGCCCCAGTGCAGCTGGAGAACCACCAGC
TGGTCCCGCCCGAGGCGGCGGGGCGAGCGGCGGACCCCGTCAGCCCCAGCCCCTCCTCCCCGGGAGCCG
CCGTGGCGGCGGCGCTGCAGCTGCGGCTAGCCCCGGCTACCGGCTGAGCACCCCTCATTGAATTTCTGCTGCACC
GGCCTACTCGGAGCTTATGGTGTGACGGACCTACTGCCAAGGAAATCTGATGTGGAAAGGAAAATAGAAATAG
TGCAGTTTGTAGCCGGACACGCCAACTCTTCGTTGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCA
AAGTGGA AAAATGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCATCCTGTTTGTGGACACTGCTGATCGCC
TGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCTGCTAGTTTTGCCATCCCATATGCCATTGATGTAC
TAACACTGGA TCTTACCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCCTCCAGACCCCAATTACCAAAA
TTGAAAAACAAGCCACACTCCATCAGCTGAATCAGATTCTTAGACATCGGCTTGTAACCACAGATCTTCCTCTC
AGTTAGCAAATCTTACAGTTGCAAATGGCCGGGTGAAGTTTCGTGTTGAAGGAGAATTTGAAGCCACCTTGACTG
TGATGGGAGATGACCTGATGTTCCATGGCGTCTTCTCAAGCTAGAAATTCTAGTTGAGGATAAGGAAACAGGAG
ATGGGCGAGCTTTGGTTCATAGCATGCAAAATCAGCTTCATCCATCAACTGGTGCAGTCTAGGCTCTTTGCTGATG
AGAAACCTCTTCAGGATATGTACAATGCCTACATTCTTTCTGTTTATCACTTCAGTTAGAAGTGTACATTCCC
AAACTCTAATGTTAATCCGAGAACGGTGGGGAGACCTTGTGCAGGTGGAAGGTATCATGCTGGAAAGTGCCTCT
CCCTTTAGTTTTGGAATCAACAGGTTCTTGGGAGAAAACTGGAACAGCATCTGTTACAAAGTTACAATTA AAA
TTGATGAGAATGATGTCTCCAAGCCTTTACAGATTTTTTACGATCCTCCTTTGCCAGCTTCTGATTCCAAATTAG
TAGAAAGAGCCATGAAGATCGACCCTTATCAATAGAAAACTCCTGATTGACAGTGTCCATGCAAGAGCTCATC
AGAAGCTCCAAGAACTGAAGGCCATTCTTAGAGGCTTCAATGCCAATGAAAACTCTTCATAGAGACTGCACTCC
CAGCTCTTGTTGTTCCCATCTTGGAGCCCTGTGGTAATTCAGAGTGTCTGCACATTTTTGTAGATTTACATTCTG
GAATGTTTCAATTGATGCTTTATGGACTTGACCAGGCCACTCTGGATGACATGGAGAAGTCTGTGAATGATGATA
TGAAACGAATCATACCTGGATTGAGCAACTTAAGTTTTGGCTTGGAACAACAGCGTTGCAAGCAGTCTATAAAAC
ATCTGCCTACGATAAGCAGTGAAACATTGCAGCTTTCCAATTACTCAACTCATCCTATTGGAAACCTTTCTAAGA
ATAAATGTTTCATTAAACTTACCCGCCTTCCACAATACTACATTGTTGTGGAGATGTTGGAGGTTCCCAATAAAC
CCACACAATGTCTGTAAGTACTACTTTATGTCTGTGAATGCTGCAGATCGTGAAGACAGCCCTGCAATGGCAT
TGCTGCTGCAGCAGTTCAAGGAAAACATTGAGGACTTGGTTTTTTCGTACAAAAACCGGGAACAGACCAGAACCA
ATGCCAAGCGCAAGTTGTCTGATGATCCATGTCCAGTAGAATCCAAGAAAACAAAACGAGCAGGAGAAATGTGTG
CCTTCAATAAAGTTTTAGCCCACTTCGTGCTATGTGTGATACAAATATGCCATTTGTAGGACTTCGGTTGGAGT
TGTCCAATCTGGAGATTCCACATCAAGGAGTGCAAGTGAAGGTGATGGCTTCAGCCATGCAATTGCTTATTAA
AAATTCCTCCCTGTAAGGGTATAACTGAGGAAACCCAAAAGGCTCTGGACCGCTCTCTTCTTGATTGCACCTTCC
GATTACAAGGTAGAAATAACCGCACTTGGGTAGCAGAGTTAGTGTGCAATGTCCACTTAATGGCACTTCTA
CTAGGGAGCAAGGACCATCCCGGCACGTTTACCTGACATATGAAAATCTGTTGTCTGAGCCTGTTGGTGGTAGAA
AGGTGTTTGAATGTTTCTTAATGACTGGAATAGCATTGCACGATTATATGAGTGTGTGTTGGAATTTGCACGTT
CTCTACCAGACATACCTGCTCATCTAAATATTTCTCAGAAGTTCGTGTTTATAATTACCGAAAACCTATCTTGT
GTTATGGAACCAACAGGGAAGCTCAATTAGTATCCAATGGAATTCGATCCATCAAAAATTCCACATTTCTTTGG
GAACTGTTGGCCCAAACCTCAGGTTGCAGTAACTGTCACAATACCATTCTCCATCAGCTTCAAGAAATGTTCAACA
AAACACCAAATGTGGTTCAGTTATTACAGGTACTGTTTGATACTCAGGCTCCATTAAATGCCATCAACAACTCC
CCACTGTGCCGATGTTGGGCTTGACCCAGAGAACCAATACTGCCTACCAAGTCTTCTCCATTCTGCCACAGTCGT
CCACCCACATCAGACTGGCCTTCAGGAACATGTATTGCATTGATATATACTGCCGGAGTCGAGGTGTGTGGCAA
TACGGGATGGTGCCTATAGTCTTTTGTATAACAGCAAACTAGTTGAAGGTTTCTATCCTGCACCAGGACTAAAGA
CGTTCTCTGAATATGTTTGTGACAGCAATCAGGATGCTCGAAGAAGGTCTGTAAATGAGGACGATAATCCCCCTT
CTCCTATAGGAGGAGATATGATGGATTCTTTAATATCGCAGCTCCAGCCACCACCCAGCAACAGCCATTTCCAA
AGCAGCCAGGAACATCAGGTGCTTATCCTCTTACTTCACCCCCTACATCTTATCATAGCACAGTCAATCAGTCTC
CCTCAATGATGCACACACAGTCTCCAGGAAATCTGCATGCTGCCAGCTCCCCAGTGGGGCTTTGAGAGCCCCAT
CACCAGCGTCATTTGTTCCAACCTCTCCCCATCCTCGCATGGAATCTCAATAGGACCAGGGGCCAGTTTGTCTA
GTCCACATGGAACCTTTGACCCTAGTTCCCCATACACTATGGTGTACCAAGTGGACGAGCAGGGAACCTGGCCAG
GATCTCCTCAAGTGTCTGGCCCTCACCAGCAGCAGCATGCCTGGAATGTCACCAGCCAACCCCTCACTACATT
CTCCGTTCCAGATGCTTCTCATTTCCCTCGAGCTGGAACAAGTTCTCAAACAATGCCAACAACATGCCTCCAC

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FIGURE 1143B

CTCGTAACTACCTCAGCGCTCTTGGGCGGCATCCATACCTACCATCCTCACTCACAGTGCCTTGAACATTTTAC
TGCTGCCCTCTCCAACCTCCAGGCCTTGTGCCCGGCCTGGCAGGTAGTTACCTTTGTTCTCCACTTGAGAGATTCC
TTGGATCAGTCATCATGAGACGACATCTTCAAAGAATTATTCAACAAGAAACGCTGCAGCTGATAAATTCTAATG
AACCCGGAGTGATCATGTTTTAAGACTGATGCACTGAAATGCAGAGTAGCTCTTAGTCCCAAAACCAACCAACGC
TTCAGCTAAAATTGACACCTGAAAATGCAGGACAGTGAAACCTGATGAACCTCAAGTTTTGGAGAAATCTTTG
AAACAAGAGTTGCAGGACCACCATTTAAAGCTAATACGTTAATAGCCTTCACCAAGCTATTAGGAGCTCTACAC
ACATCCTCAGGAGTTGTGTGCACATTATGAAGCTGGAGCTGTTCCCTGACCAAGCAACACAGCTAAAATGGAATG
TTCAGTTTTTGCTGACGATCCCTCCCAGCGCGCCGCGATTGCACCTCCTGGGACGCTGCTGTGGTGTGAAAT
CCAAAATGCTATTTTTTCTTCAACTAACTCAGAAAACATCGGTCCCTCCCAAGAACCTGTTAGTATTATAGTTC
CAATCATTTTATGACATGGCTTCAGGTACAACCCAGCAGGACAGCATTTCCAGACAGCAGAACTCTTCTGTGCTG
CTCCCATGATGGTCAGCAACATTCTGAAGAGGTTTGCAGAGATGAATCCACCACGACAAGGTGAATGCACAATAT
TTGCAGCTGTTCTGTGATTTAATGGCTAATCTTACACTGCCCCCTGTGGGCGTCCATAGACACTATTGTTTTTAA
ACCAGGAAGGCTGACAGATGAGACAACAAAAAAATCTGAATTCAGCCTTCAGTTTTAAAAAAGGAAAAGGACTTT
TTTTTTAAACITTTAAGAGCTAAATATTCTAAACTGGCAAAAATTTTCAGGGTGCACCTCTTTCATCAAAATGATC
ATCCATCTTTTGTATAATGAACCTGTATAGTGTGTTAAATGGGACACATTTCAAAGGAAATAATCAGTGTCCG
TTTGCCAGTAATAAATTTAATATTCTGTTTTATCTATAAAGTTATGAAAATGCCAACTTGTTTTATTTAATTGT
TTTCTTATGTTTTGGGTGTAATAGTCCTTTTTGGTTTTTGTGTTTTTAAAGGAGGCTGTGCTATTTTTGAA
TACTGTAAACTGTGATAAACTTTATATTGAAGCTGTATTTAATATGACCGCTTGAATCCTTACATGAATGT
TCTGGGAGTTGTTATAAACACACCCCAAGGAAGCAATATTTAATAAACTAGGTCAAAAACAAAACAAACAGTG
ACACTCACTTGTGTGTATATAAACTCTAGAGACATCTTAGGCCCTCCCTTCATCTTTAACCTGGTGGATGGAGCC
AGTTATTAATTTATAATAATACATGTCTGAAATTTGACCAAAAACATCTTCTTATGTCAAGGTTAATATATTTT
CTTCAGACATTCTTAACCTGACTAGTGGTTAACATTTAGCACCTTGGTTGTCTTCAATATATAGGATTTGGGTG
AAAAATAAGGAACCTTAGTCTTTGAGAAGGGACAGTATGTGGTTCGTATTGATCAAGGATCCCAATAATGCAATC
ATTCTCATCTGTTGAGGATGTGGGAACCTTTCTGTGAGGAAAATTTAGTTTACAGAATACTTCTGCATACAACAT
TAATTAGGAAACAAAGAACTTTAATGCTGTACCTCTGCATGAAGTTTCTGTGAGCTTTCTTTATCTTGCTTAAC
TATCCTCCTTTCTTTCCCAACAAAATTTGGGATTGTTCTAAACAATTTCAATTTAATTCATTGTCAACAAAACGA
TAGAATGTTTTGCTTGGAGAAACCTGGTCCATTCCCTCATGTGAAGAATCCGAATCCTGGGCTGTCCAGG
GTCAAATGGAGTTTTTGGTATTAATACATCTCTGCAGGGTTTTCTTTTGGAGCACTGTGCTGTCTTTCTAGTCA
GTCAGGGACTTTTTTAAGCTTCAAAGAACATGGTCTGATGCAAAGGTCTTCTACCGACTTCATGGTATTTAGGAA
AAATTTTTAAGTGATAATACCATGCCGAGTTACCTGGTCACTGTAATACTGGTTCTCCATTAAATGTAGATGCT
TTGTCTAATTCACCTTCAAGATGATTTAATTGAGCTTCTATAACTATCAACIATCAAAATCTAGTTTCAAGTATC
TCACTGTACCTATATCATATCTGTTCTCAACTTGTGTTGATTCTCCACTCATTTTCAATCAGAGTTGAAGCCTTC
TTTGCCTTTCTCTTTGCTTATTTCTGCCTTCATCTCCCACTTCTCACCCAACCTTGCCACTGTTCCAGGAGCAG
TTGACTAACTTTTATCCTTCCTTTAACTTAATCTTTTTATCCTTCTGTTTTTAGTTCTTACAGTGGTAATCACA
TCAGTTTGGCAATCTAAGATGTCTTTATCAAGGGTCAGCCCTTTTCTATTTGGAGCTGAATCTTTCTTTTCATGT
AGAAATCTACATGTATATACAAGAAATGTATTTTATCTGCAGGATAATATTGTTTCAAATAATTTTATTAAGAG
TTAACTTTTTAGGTATTTTCCCTTTAATGTGGTTTTGAAATGTTAATTGCATTTTACACATGATGCATTCACT
GGACACTCTTTTTCTTAATTATAACTCATCTCTGAATGCATTGTGCCAATCAAGAGTAAGATAGGATTCACTGC
GCAAAATTTGCTTTTGATGCTTATTAAGAGTAAACCATGAATTTGAATTTTTATATTATGCTTGGTACTTGGAA
TTGATATATACCTTATTAAGCTTGAAAACATTTAGCATTTGAATAGTAAGTTTCATCACAATCATGTCTTTTG
CCTCTTTTGTACCAGGTTTCGATCAAGGGGACTGGATGCCCAAGTGATTTTCTCTAATAATCGGGTGGGACTT
AACTTTAAGGTGTTTTCAATGTGATTTTAGTATTTACAGTAATAAATAAAATTTTATACAAAGTTTCAGAGAACTA
CCAACCTCTAGTTAATTTTGTGAAGATGTTTTCAATTAATAGTCTGGTTTAGTATTAATTTAACCTTGAATAA
GAAATTTGGTCTGATTTGCCACCTTCATTTTCCATCTGCTGAAATGCCATTTCAGAAATGTATAAAGTACTTTT
AGAATTAGAAGAAAAGTGAGAGCTTCAGCAGAACGTGTCAAGTCGCTAATAACAGGAGTCGAACCTTATGTTTGA
AAATTAACCTGAGTGAGTTAAGTGAAGCATAAACTAAATTTATATGACTTTGAATTTAAGAACCCTAATAACT
GTGTTCTAATTAACACAGTAATCTGTTTCAGCCAAAGGATACTAACAGCCATTCTTTGGACTGTGGTTAATTTGAT
AACTTCAAGAAGTTATAACTTTGCTACCTGGATTCTGATGCAATTTCAATATAAAAAGTTGTTCTTTTCATAGT

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FIGURE 1143C

TTTTCCCCCAAAGAAGTGCCTATTACATTTTACCTTAATGTTTATTTATCATCCAAGTGTTCTTGATATAAAA
TCAGTATACAGAAAATTTTAAGAGAACTTACATTCAAGGGACATAGAGGGAAAATGTTAATGTGTATTTTATTGT
TTCTTGTGGAATTTTTTTTTTCATTTCGGTTTGAGAATGGACAGTGTGTCTAAGGATGTGATTTAAATTTACTTAGG
ATGGATTTAGCATTGAGGTATTAAAGACAAAGTTAGCAGAGGCCAGCCAGCACTGTGCTGCACAACCTCCAGGAAC
TCCATGGTATGCTCACAAATTTCTGCAAGTTGCCTCCACTTCCAAGTGGCCAGTGATTTGTTAAAATACCTTGCC
CAAGAAATATAACTGATTGATGAAAGGGCATATTTAGGTCAATATAAAATAATAGCAAGTATTTACTGAGAGCTTA
CTGTGTGCTAGGCATTTTCTTAATATTTCAATGTGTATTTAATCCTCACAACAACCCAATGTGGTAGGTTATTGA
TATCCTCTTCTTAAAAATGAGTAAATGGAGGCCAGAGAAATGTAATTTGCCTGAGATCAAATTAAGGTTGCTTA
AGATCAAACCTGCTAAGAAGGGGCAGTTTGAGTCTGAGCTAGTGCTCCTAAACACTGGACATTTTGTGTGAACC
ACAGTCGGAAGGTTTAATGTTTAGACTCTTTCTCAGAGGCTTTTAACTACACACAATTTTGACATGTTTTCCA
AGCTCAGAAAGCTCATTAAAAACAACATAAACTG

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FIGURE 1144

MAPVQLENHQLVPPGGGGGGSGGPPSAPAPPPPGAAVAAAAAASPGYRLSTLIEFLHHRAYSELMVLTDLLPR
KSDVERKIEIVQFASRTRQLEVRLLALVKWANNAGKVEKCAMISSFLDQQAILFVDTADRLASLARDALVHARLP
SFAIPYAIDVLTGTSYPRLPTCIRDKIIPDPITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFR
VEGEFEATLTVMGDDPDVPWRLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC
LSLQLEVLHSQTLMLIRERWGDVQVERYHAGKCLSLSVNNQQVLGRKTGTASVHKVTIKIDENDVSKPLQIFHD
PPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAILRGFNANENSSIETALPALVVPPILEPCGNSE
CLHIFVDLHSGMFQMLMYGLDQATLDDMEKSVNDDMKRIIPWIIQQLKFWLGQQRCKQSIKHLPTISSETLQLSNY
STHPIGNLSKNKLFIKLTRLPQYYIVVEMLEVPNKPTQLSYKYFMSVNAADREDSAMALLLQQFKENIQDLVF
RTKTGKQTRTNAKRKLSDDPCPVESKTKRAGEMCAFNVLAHFVAMCDTNMPFVGLRLELSNLEIPHQGVQVEG
DGFSAIRLLKIPPCKGITEETQKALDRSLDDCTFRLQGRNNRTWVAELVFANCPNGTSTREQGPSRHVYLTYE
NLLSEPVGGRKVVEMFLNDWNSIARLYECVLEFARSLDPDIPAHNLNIFSEVRVYNYRKLILCYGTTKGSSISIQWN
SIHQKFHISLGTVGPNNGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMGLTQRTNTA
YQCF SILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLKTFLNMFVDSNQDARR
RSVNEDDNPPSPIGGDMMDSLISQLQPPPPQQPFKQPGTSGAYPLTSPPTSYPSTVNQSPSMMHTQSPGNLHAA
SSPSGALRAPSPASFVPTPPSSHGISIGPGASFASPHGTLDPSSPYTMVSPSGRAGNWPQVSGPSPAARMF
GMSPANPSLHSPVEDASHSPRAGTSSQTMPTNMPPPRKLPQRSWAASIPTILTHSALNILLPSPTPGLVPGLAG
SYLCSPLEFLGSMVIMRRHLQRIIQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQTLQLKLT PENAGQWKP
DELQVLEKFFETR VAGPPFKANTLIAFTKLLGAPTHILRDCVHIMKLELFPDQATQLKWNVQFCLTIPPSAPP IA
PPGTPAVVLKSKMLFFLQLTQKTSVPPQEPVSIIVPIIYDMASGTTQQADIPRQONSSVAAPMMVSNILKRFAEM
NPPRQGECTIFAAVRDLMANLTLPPVGRP

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FIGURE 1145A

GGGGCACTGAGGAGCGGGCGCCCGGGGAGCGAGGAGCCCGATGCAGGGTTCTGCGCGTCATTTCCGGTCCCGC
GGGCGCCCGTGAAGCCCACCTGGATCCGCCAGCGCTGTGCCACTCCCCAGTGCCGAGCTCCGAGCTGTCTCCGC
GGCCTCGCGCCCGGCCCTCCACCGCGCACCTCTTAGGCCCCGCCAGCGTCCCTTTGTTGTGAAGGCGCCG
GGGCCTAGCGCTATGCCTGCGGCGGAGACTGCATCAGGCTCTCGCGTCTGCTTCTGCGCTTTGCCTGGGAGAGGC
CCTGGTGGCCTCGTTCTGCGCGCCCGAGTCCCTGCTGCGGCCCAACCCCGGGCGGTACGGTGACCCATGCTG
CCCAGCCTGGAGGTAAATCGTTCTGCTGGCTGTGGCTTCAGCATGTCGTCTCGGTGAAAACCCAGCACTGGAAG
AGCTGGTTCTGGCTCCGAAGAGAAGCCGAAAGGCAGGTGCGCTCTCAGCTGGGGCTCTCTGTTTGGTCACCGAA
GTGAGAAGATTGTTTTTGCCAAGAGCGACGGCGGCACAGATGAGAACGTACTGACCGTCACCATCACGGAGACCA
CGGTTCATCGAGTCAGACTTGGGTGTGTGGAGCTCGCGGGCGCTGCTCTACCTCACGCTGTGGTTCTTCTTCAGCT
TCTGCACGCTCTTCTCAACAAGTACATCCTGTCTGCTGGGAGGCGAGCCAGCATGCTAGGTGCGGTGCAGA
TGCTGTCCACCACGGTTATCGGGTGTGTGAAAACCTCGTTTCTTGTGTGTTGTATCAGCACAAGGCCCGGCTTT
CCTACCCACCCAACTTCTTATGACGATGCTGTTTGTGGGTCTGATGAGGTTTGCAACTGTGGTTTTGGGTTTGG
TCAGCCTGAAAAATGTGGCGGTTTTCGTTTGTGAGACGGTGAAGAGCTCCGCCCCATCTTCAGGTGATCATGT
CTCGGATGATTCTGGGGGAGTACACAGGGCTGCTGTGTAACCTCTCCCTCATCCAGTCATGGGCGGGCTGGCGC
TGTGCACGGCCACTGAGATCAGCTTCAATGTCTGGGTTCTCGGCCGCACTGTCCACCAACATCATGGACTGTT
TGCAAAATGTTTTTCAAAAAAGCTGCTCAGCGGGGACAAATACAGGTTCTCGGCCCGGAGCTGCAGTTCTACA
CCAGCGCGCTGCGGIGGCCATGCTCGTCCCGGCCCGGGTTTTCTTACGGACGTCCAGTGATCGGGAGGAGCG
GGAAGAGCTTCAGCTACAACCAGGACGTGGTGTCTGCTTCTGACAGACGGAGTCTGTTCCACCTTCAGAGCG
TCACGGCGTACGCCCTCATGGGGAAAAATCTCCCCGTGACTTTACGCGTCGCCAGCACCGTGAAACATGCCCTGT
CCATCTGGCTCAGCGTAATCGTTTTCGGCAACAAGATCACCAGCTGTGCGCCGTTGGCACAGCCCTGGTGACCG
TTGGGGTCTGCTCTACAACAAAGCCAGGCAACACCAGCAGGAGGCGCTGCAGAGCCTGGCTGCAGCCACTGGCC
GGGCCCCAGACGACACAGTGGAGCCGCTGCTTCCACAGGACCCAGGCAGCATCCCTGAGAGCAGGAAGCTGCCA
GCTGCTGCTGTCTCTGACACTGCATCCCCAGAAATGGGCAGGGACGCCCTCTCCATGGCCCTGCTGGGGTG
CAGGACATGGGGAGCTAAGTTGGCCATTGCCTGCGGCTTTCTCGGTTTGTGGTGAAGACCAGCAGAACTCAAA
CIGGGGATTCCAGGTATCAGCTTCTGGAGTAGACACCAGACAGTAGCTGACTGTGTCCGCCGAGCCCATCCCC
GTGTAATGTGAAAACAGCCTCTGAGGCTCCCATGCTGGGGGTGCCACTTCTCTCTGGGCGACACCCAGGGTC
CACCGGGAGCCAGAGGTGGGTCCAGTGCCAACGAGAGCCGCTCCCTGCCACAGCCAAGAGAGCCCTCGGCTTCCC
ACACCAGCCATCGAAGGCCCTGAGGCCCTGGACCGGCGCAGACTGGCCCTGGGCATGAGGCCACAGAGCAGGGC
CGAAGGGAGGGGACAGAGGGCCCTGGAAGGAAGGGTCTCTGCTGCCACGGTGGGCACTCAGAACTTCTCCCCAC
CTGACCCAGGGCTGTGGGCATCCTCAGACTATCCCAGAGGCATCGCAAGCCTCAAGCTGCAGCATTGCACGGCAC
TCAAGGGCTATGACCACGGAGGCCGTTTCTAGTCGCTTCTGTTTAGAGGAAGGCCCCCTACCTTCTCCACACCTGC
CCTCTATCCCTTCCACACCCTGGGCTGCATGAGCTCCCCGCAACCCAGGGCACCCCTGCCCTCTACCTGTGGG
GGTTTTCCAGCCCTGAGGTTGAGGACAAACCTCTCGTGTTAAGTTGGGAGGAGATGTGTACGTTCTCTTTCTTTT
TTGGACTCTGAGTATGAGGCAGGCTGTTCTGAGGTCCCGTGGGGTGAGCCTGTCTGTCTCTCCCTCAGAGCCAC
CGTTCTATCATCATCTAGCACCTGTCCGGTTCCCCACGTGAGCCTTGGGCAGGACGCTGCAGTGTGATGGTTT
GGGTTACGTGGCGTTTACCTGGGCGCCGTCCTTGTGAAAAGGAAACGTCCACACTGAATGTTTCTGGGGCGCG
TGGTGTGTGTGAGGCGCCACCCCTGTCCCACTCTCCCCAAGGACAGTAGTAGGGCACACTGGGGCCACCAGCCA
GCTCAACTCATCTCTGTGTACGCACCCCGAGGGCGCAGGAGGCTGAGGAGTGGCTACTGGAGCCGTGTGT
TAGGCAGAGGCTTCTGACCATGTCTGAGCTCTTTACCCCCAATCTCGCAACCGCGGATTCCCATGCCCGGTGCA
GCCTGTTGCCAGCCAGCCTTTGAGACCCAGAGCTCCAGGGCTTGTGAGAGGACGATGGGGCTCCAGTGGTCCCG
AGTCTCATTTCCCTGCTGCTCTTTAGGCCCTTGGCACCCATGGTCACTTCACTGGTTTTCCATTGGCTTCTCA
CCTGGGAAATACAAAAATAGCCCTCCTGAAGATAAAATCGTTTCAGAAACAGAGCAATAATTCTGACTCATTAA
TTCTACCTACTCAAAAAAGTCTGCCATGATGATGGACCGAAGTGAGGCTTTTTAACCACAAAGTAACCTTTTTAT
TTTTTTGAGACGGTCTTGTCTGTACCCAGGCTGGAGTGAGTGGCATGATCTTGGCTCGCTGCAGCCTCGACT
TCCTGGGCTCAAGTGATCCACCTCAGCCTCCATGTGGCTGGAACCGCAGGCAGTGCACCATGCCTGGCTATT
TTTTTTGTTGAGCTGGGCTCTCGCTTTGTTGGCCAGGCTGGTCTTGAACCTCTCGGCTCAAGCAATCCTCCCCT
CAGCCTCCTGTAGTGTGAGAATATAGGCGTGGGCTACTACCTGCTTCAGCCGCTTCTATAAAACCGCTGACC
TGTGTGTGGAGGACAGGCCAGGTGTGTGCTCACTGCGCTGCGAAGATGTTTTGTACGTGACTTTCCCTGGGTTT

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FIGURE 1145B

CCATTTCCTTTTTTCTGCTTTCCTCAAAAATAATAGAAGACCGGCTGCGGTAGCTCAGGCCTCTAGTCCCAGCA
CTTTGGGAGGCTGCAGATGGCGGATCACAAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGATGAAACCCTGT
CTCTACCAAAAAATACAAAAATTAGCTGGGTGTGATGGTGGGTGCCTGTGGTCTCAGCTACTCAGGAGGCTGAGGC
AGGAGAATTGTTTGGAGCCCCAGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAA
CAGGGCAAGATTCCGTCTCAAAAACAAACACTATTAGAAAATGCTCTGGAGGTGGCGGGGAGTTGTTGATTTGTG
AGGACAGATTGAAAGCAACTCCCAGGGTGGCCTTGTCCACCTCCCCATCGAGAATATGGCTGCCGGCCTCTTTGA
AGATTGTGGTCTGGCATAAGGAGAGGTGCAGGCGCCTGGTTCTGAGCACCTTGGAAATTTCCAGCCGCACAGCATC
TGGTGGCCTCCCCCTCCACCCTCACAAGGAGCTGCCATCCTGTTTGGATTTTCTGTTTGTGGACCAGAAACAAACG
TTTTTCCAAAGGATTAGCAAATAGGTTGATTTCCCTGTGTAACGCTGCTCTGGGGCCTCTTCCTCATCTGGCAGA
AGGAGCCTGGAGCCCATGAGGCAGCCAGCACTGTGCCCTTGCTCAGTCGTGCTGTCCCTCCCTCTCCCTCAGTC
TCTTCTCCATGCCCAAGTCAGTTTCCAGCCGCTGGTCTTCATGGCATTCCAGCACAGCTGGACACCAAGAGGCA
AAACCCAAAGCCTGGCTTGGCCGTGTTAACGATTGTACAGACATTTTTTTAAATAACTTTGTGTAATACTTTTCT
AGAATAGTAAGTCTTGTGTTGAAGTGTACAGATGAGCTTCTAGGAACACACCGGGTGTGGTTACTTCCACTGGGT
GTGTCCATGGTCGTGGTCTGTGCCCTTTGTAAACAAACAGAACACTTGAACCACCTTCCGAATTGGGTGATCGGCT
TCTTTACATTGATACTTAGAGATTGTCAGCTCTCTAACTTTCAAGGAACTTCCCTACTGAAAGGCATAAAAAAG
GTTAAAAAAGAAAATCCGAGAGTCCCAATTCCTGTATAACAGCATTAAAAATAATCTGCCTGCCTGGAAGATGA
GAACACTGTTGCACAACCCAAAATGTGTTTTTAATTTGTGAAAAATTACCATGGTGAGTCAGACAGTCATTTTAA
ACAGCTGAACAGAGACTATCATCAGCAAATAGAGCTCAGCTTTGTAGCTGCCTTTAAATCCTTGTCCCAAATCC
GGTGAGCTCTGCTTGCTGCCGCCGCGCTCCTGGGTGATCACTCAGACGGGTGAGTGGGAATAACGGGCCAACAAG
ACAGCTTTTTTACATGTGTCCAAAGGATGGCCTTTCCGAAGGCCTGGAAGTATTTCACTGTTGGAAGAAGTAAACAA
GAATGACATTCCAGATGGAAATAGAATTCTCTCTCTTGCCTTTGACCAACATGGTACTAAGGGGTTTCTTCTTTC
CCAATGTATGTACGTGCCCTGCTGGGGCCCTTACTTTATAGAATGAGAGCATCCGAGCTTCCCTAATGAATCTGG
CTAGTTCTGTGCTGGCTGAGGATACAGGAGTGGGACATCCACTCTCGGATCCCTCAGAGCACAGAAACCTTCAG
CTTTGCTGTCTCTGAAGTATTTCCCTCCAGTTTCCCTGCGGGCCCTATGTTTGAGTTTGATGGCTGCTGGATCCT
CACTCAACGAAAACCTCGGTTGGAACCTGTTCCGCCTGGCAGTCCTTTTTTGTGTTTTTCCATCTCATTTCCTTC
CATCTGAAAGTGGCATTGAGCTGACTTGCTCATTTAGACTGTTACGGAGTCTGAATCTGCCAACGTGGTGTGG
AGGCTCCACCTTGAAAAGGGCCACAGTCAGGGCAACTTTCCCATACAGGAAAACCTGAAAATTACATCAACAGT
CTACGTCACAGCCAAATTATATTTCCCTTTATACCAACAAAACCTATGGAGAACTAAAAGTACATCACACAAAACG
TTTATAGTGTGTTTGCATGTGACCTATTTAGTATTTATATACTAGATTAGTCTTTCTAGCAAACGGTTCTGTT
AATTAGCGAGTCACTGTTGATTCTGCTGTGGTGGTAAGTTGATACCGTGTAACTAATCCCGTGGATGCCTCCTCG
TTATTTTTGTCCAAACGAAGCAGCCGTGGTAGTAGCTGTCTATGATTCTTGCTCAGCAAAGTAAAATAAATGTTA
AATATGG

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FIGURE 1146

RYACGGDCIRLSRLLLRFAWERPWWPRSWRPESLLRPHRAVTVTTHAAQPGGKIVRGCGFSMSSSVKTPALEELV
PGSEEEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITETTIESDLGVWSSRALLYLTLWFFFSFCT
LFLNKYILSLLGGEPSMLGAVQMLSTTVIGCVKTLVPCCLYQHKARLSYPPNFMMLFVGLMRFATVVLGLVSL
KNVAVSFAETVKSSAPIFTVIMSRMILGEYTGLLVNLSLIPVMGGALACTATEISFNVLGFSAALSTNIMDCLQN
VFSKKLLSGDKYRFSAPELQFYTSAAAVAMLVPAVFFTDVPVIGRSGKSFSYNQDVVLLLLTDGVLFHLQSVTA
YALMGKISPVTFVASTVKHALSIWLSVIVFGNKITSLSAVGTAALVTVGVLVLYNKARQHQQEALQSLAAATGRAP
DDTVEPLLPQDPRQHP

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FIGURE 1147

CCCACGCGTCCGCTTTAGTGCGCTCGCCGTCGGCTCTACCTGCGTGCTTTAGCTCCTTCTCGCCTGATCCTTCTG
TCTCTCCCAACCCCGGACACCCGGCTTCGACTGGTTATATCTTCGGTGTCTTTTCTCTCTTCTTCTTTTCGCGG
TTCAGCATGCAGGAAAAAGACGCCTCCTCACAAGTTTCCTGCCACACTTCCAACATTTGCCACGCAGGCGATC
CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAG
CAAGGGGCGCCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAATTGCCTTGAAAA
GCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGGTTTAGCAGCCACTGTAACATTACC
CATCTTTTAAAGCAGGAGACCAAATTATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAA
GTGGCATCTGAATTTGGATTAAAGATTTCTTTTGTGATTGTTCCAAAATCAAATTACTAGAGGCAGCAATTACA
CCAGAAACCAAGCTTGTTTGGATCGAAACCCCAACCCACCCAGAAGGTGATTGACATTGAAGGCTGTGCA
CATATTGTCCATAAGCATGGAGACATTATTTGGTCTGTGGATAACACTTTTATGTCACCATATTTCCAGCGCCCT
TTGGCTCTGGGAGCTGATATTTCTATGTATTCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGC
CTGGTGTCTGTTAATTGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAACTCTCTTGAGCAGTTCCATCT
CCTATTGATTGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGA
ATGGCAGTTGCCAGTTTCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCATCCA
CAGCATGAGTTGGTGAAGCGTCAGTGACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGCACTCTTCAG
CATGCTGAGATTTTCTCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTGAAAAGCCTTGCT
GAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTCCTTGGAATTAGTGACACACTG
ATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAAGCTTTGAAGGCAGCACAC
CCTCCAAGTGGAAGTCACAGCTAGTATTCCAGAGCTGCTATTAGAAGCTGCTTCCTGTGAAGATCAAATCTTCCT
GAGTAATTAAATGGACCAACAATGAGCCTTTGCAAAATTTTCAAGCGGAAATTTAAGGCACCTCATTATCTTTC
ATAACTGTAATTTTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAATTC
TGTTAATATCTTTTTGTTAATTTTGCTCTATGTTTGCTCTGAAGGAGGTGAGATTGTGCTACTTTGGGAGATT
ATGTTCTTTTTTTCATGCTAAGATTTATTTTGATCATGTTTATAATATAATGGTAATTCATTTTTGATGTTTTGT
GAAGAATTTAAATTTAAACGAATGTTCTTAAATCAAGTGTGATTTTTTGCATATCATTGAAAAGAACATTAAAA
GCAATGGTTTACACTTAAAAAAAAAAAAAA

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FIGURE 1148

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSGNPTRNCLEKAV
AALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLEAAITPE
TKLVWIETPINPTQKVIDIEGCAHIVHKHGDIIILVVDNTFMSPYFORPLALGADISMYSATKYMNGHSDVVMGLV
SVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQH
ELVQRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIR
LSVGLEDEEDLLEDLDQALKAHPPSGSHS

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FIGURE 1149

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCCGGTCGCCAGGCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCTGAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCTGCCTCTGTGCCATTGACATTACAACAAGACGCTC
TATCACATCACACTCTGGACCTTCCTCCTTGCCCTGGGGCATTTCCTCTCTGAGTTGTTTTGTCTATGGAAGTGA
GCTCCACGATTGGCGTCTGGCACCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTGGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAACTGAGGCCAGCATTATCACCTCCAGGACTTTCTC
GTTTTCCACCTTGCGCATCTTCTTCCTTCGTCTCTCTCTCTTTAATTTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACCTTTTAGCCTCTTTTTTTAATTTTAAATTTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCACTGTGTCTCCTTCCCTACCTGCAACCTCTTCAGGCTCCCTTTTCCAGCCTTCCCTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACATGAACTTAAACCTGCTGCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCTGTGTGTGAGCAAGACCACAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTGTGTAACAACT
TTTGTAATAAATAGAAAAACCTCTGCTCTGATCAGTTCTTGTAACCTTCTGCTAAGACAAGAGCATGGCT
GCCCTCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCTCCGGCTCCTTACTGTCAATTTGCTCATTCTCTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCACTAACTAACTAAGTGCCCTTCTTATTCTCTCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAAGTAGGCAGCATAGATGAAACAAGTGCATGACATGGGAA
GAAGACAATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCTACCCAGAGGGCCTCCCC
AGCTGGACCTTCATACACAGTGTGTGTATCCAAAAGGCCATTGCTATTTAGCAAAATATTTGTTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACAAAAATAAAGAACTTCAAATAGGGATAAGAACTCTAACAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCTCCTG
AGGAGATGGATTTTTTTTTTTTTTTTTAGAGACGGGGTTTCACTCTGTCAACCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAA

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FIGURE 1150

MSRFLNVLRSWLVMVSIIAMGNILQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRQKKRN

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FIGURE 1151

GCACAGGTGCGGGCTCCGGCTTACGGCGGCGACGCGGCGGAGGCGGCGGGAGGCCAGAGGCGCTCACCTCCTAGG
AGTCCGACGGCGGCGACAGGGGCGGTGGGGAATTCACAAAGCTCGTCGAGCTTACCGGGCACCAGGCCCCGAGT
AGGGGATTGTGGATGCGCGGGTCCCGGGTGGGGTCGGGGCCAGAGGGGGTCGCTAGTGCGGGTGTTCCACGGCTGA

TCACGCTTCGTTGGCCCCAGGCGGTGGGCTGCCGGCAGGGCAGGGCGCTGTAGTTGACGGGAGCTGCGGGGACCC
CGGAGACCCGGACGCCCCGTACCGCCCCCTCCCCAGTCCAGCAGCGCTCCGCGGGGATGCCCGTGGTCTCGAC
CCGGTCCGTACGCCCCGGCGGCGCAGGGATCCGCGCCCCGGCGCTAAACTGCCCTGGTGTCTCTTCGTTCTGG
CCCGGGGCTGGCGGGGGGAGGTGCAGCATTAGGGGCGCTGAGGTGACACCCGAGAACTTCCCAGGGAGAGGGTGC
GCGGGGGGGTGGATTCCACAGTCCTTCCCGCGGCCCCCGCGGGGGGGCGGTGTGGGAGGGCACTTGGGGTTAT
CCCAGGCTCGCCGGTGGGGGTGGGGGACTCCTCCCTTTACTTCCCTCCACCCCTTGACACCCACCCCAAGG
TTCCCGTGTCCCTTGTCTCCCTCTCTCCGGGTAGAGATAGGTGGGTGGCTTTGAGTGGCGGAGGACTTCAGG
GTTTAGGGGCTCCCCATTCTAGGTCATGCCTCTTGCTCTCTTCCCTGGCCTGTGTTGAGTAAGGTGTGTTCT
GTGTGGACGAAAGTCTGTACGATGGTTGGTGGCATTGGTCCTTAATCCTTTGGGTCTGTTTTAAGGTAAAGTGC
TGAGAGTTTGGGAAGCAAAAATTTCTATTTATTGGATTCTTTTGGCTTTTCTCTCAAGAAGGAAGTGAAAAAG
AGTCTTTTCTTTTTCCCTCTTCTCCATTTCATTCTTTGTGAGGTTTGTCTGCCTTGTGCTTTTGTCCCGAT
TAGTCTTGTGAAGGATGGAGATTCCCAGGCGTGGAGTCTATAGCTTTTGGCTTCCATTAAAGTAAATCGCTAAC
CTTTTTTAAAGAGAAAGTTAATTTTTGCTGCAGTCATTCCAGAAAAATAGTGTACACGGACTAGCTGAATTAAT
CCACTTAAAAATTGTAAGTCTAGTTACATATGGTAGATATGTTAACTCCTATCTGATTTTTTGGATGAACTGTTG
TTTTGTTTTTAAATAGGAGATGAAGTAATGGATTTTTTCCCTCCCTTAAATGGCATAGCTGAGAAAGCCCCGG
TACTACTAATTGAGATGATCTGCTTAAGAGTCTTCATATTCTGAAGTCTGAAAGGCCTTTATGTTATATTATTC
TCGCTTTACGCAACTCCAAATTGCTTTCTATTAAATGAATGTTCTTCTAGTAACTGGTGTAGATTTAAAGA
AATCACTCAAGCTTCACCTTGGTAAACTGAACTCAGTTTAAGATTAAGAACTGATTTC

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FIGURE 1152

AQVRLRLTAATRRRRREARGAHPPRSPTAATGAVGNSQSSSSLPGHRGFSRGFGCAGPGWGRGQRGSLVRVFHG

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FIGURE 1153

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCCTTCG
AGGGCGCCCCAGGCCGCGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCCAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTGCGGGTGGACTGCAAGGACCCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTTTGGACTAGCATTTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACCTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCTGTCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTTCATGACITTTAACAAGAACTTACAGCCTATTTAGATCTTAACTGGATAAGTGCTATGTGATCCCTC
TGAAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCCTATCTGATTGATGAGCAGATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTCATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAGGTATTGAGAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTTGAACAG
TCAAGAAAAACATTATTGAGGAAAAATTAATATCACAGCATAACCCACCCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTTCATGTAAGTAGCAAACAGGGCTTTACTATCTTTTCATCTCATTAAATCAATTAACCAT
TACCTTAAAAATTTTTCTTTGAAAGTGTGGTGTCTTTTATTTGAATTAGTAACTGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTATCTGGATTTTATGTTTTATT
AGCATTTCAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCAATTTGAGCACACATTTTAAATTTCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTAGAAAATGTTTGAATTTAAGAAATAACTTGTGTTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAGAGAATCCACATAAAGAAGAACTATTTTTTAAAAATTCCT
TCTATATACAAATGAGTAAATCACAGATTTTTCTTTAAATAAAAAATAAGTCATTTAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 1154

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRAWCWCFCGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 1155A

GCGCCCCGCCCTTTCTCGGCCCCCGGAGGTGACGGGGTGAAGGCGGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCGCAGCCGTCACCCGCGCCGCTCACGGCTCCCGGGCCCCCCTCCTCT
GACCCCTCCCCTCTCTCCGTTTGCCCTCTCCCCCTCCTCCGCCGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTITTTCTCCTTCTCGCAGCCGCGCCAGGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCGA
GATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCTGGCCACCGACTCTACAAGTTACTCACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGCTTTAATGAAAAGGG
ATGGAATACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTCTGAGGGCTTTGTCTCAT
TCCCAGAGGAAATGTTCTCTTACGGTGAAAACACAGATCCAGAGTGTACTGGCTTACAAATTGGATTGAGAC
TATTCTTGTTTCTGATCTGGTATCCAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAATATTGGCCAAATA
TTTGTITAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTTGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAACCCCTCTTGACACTGTGTTAAAGGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAATCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGGTCTGTTGGAGGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTTCAA
GTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTACTGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAGCTATTCAATTTGATGA
AATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCATTAGGCTTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTATGGACATACTGCCCTTTTCAATTTTTCTTTTCCAGTGTGTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTTATATAACTGATGATCACATAAAACAGATTTGCA
TAAATTACCATGATTGCTTTATGTTTATATTAACTTGATTTTTGTACAAACAAGATTGTGTAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAATTTTATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTGTGTTATTGT
ACAATTTGAAAATTATGTCGGGACATACCTATAGAATTACTAACCTTACTGCCCTTGTAAGATATGTAATTAAT
CATTCTACATTAAAGAAAATAATGGTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGTATTGTACAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAATACTTACAAAAGTGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGTACTTAAATGTTTCAATTCTGTTATATTT
TTTATTAAGTTTTTAAAAAATAAATTGGATATTAATTTGTATGGACATCATTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAATGTTCTAGAGTGATTAGCTACTAGATTC
TGAATCATACATCACATCTGACTAGAGACCAGTTCTTTTGAATGATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACTATAGCCCAAAGGCCAAATTTGGACTTCTTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGCCCAAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTTAACTGACATTAAATGTGAAAT
TTAAAATTGAAAAGCCATAAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTGTAGTGGTATTAGAAAGAATATGTTTTTCTAGATGGTTCTTTAAACA

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FIGURE 1155B

TGTAGTGAGAACAAATAAGCATTATTCACITTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAAGAACTATTACCAATAATAGTTTTGATAATCACCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTCAGCAGCTTCAGAATAGAGTTTAAATTTAGAAATTT
GCAGTAAAAAAGCTATCTCTTTGTTTACAACCATAAATCAGGAGATGGAGATTAAATCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCAACCTTAAATCAGTCTAAATCTTCCAGACAAAAGCAAA
TGGCATTATGGAATTAAGTCATTAGATTTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAAGTAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAACAATTTTATAATGAAATCTATCTTGAAA
ATTAGAAAGAAAAATGGCAAGGTATTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTTGTAG
TTTTACATTCCTTTTAAACCATTTCAGTGGAGAATGTCAGCTTTTCTCCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTAICTAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTTAAA

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FIGURE 1156

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVSYFECREKKTENSKLRKVYEETVIFYGLQYILNKYLKGKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVPEGFVIPRGNVLFVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDFAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPDSGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIOGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRSLHRTPAGNFVTLEEGKGDL
EYQGDLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1157

CGCGCGGCCCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCAAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTTAAAAGGTAAAGTAGTAACCAAAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTT
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTTCTGAGGGCTTTGTCTATCCAGAGGAAATGTCTCTTCACGGTGGAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTTGTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCAGAAACAAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCTTCAAGTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAAGCTATTCTTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGT
TTTATGATACATTACAGCCAAATTAATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTCATATAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGT
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTCCAACTTTTCATGATTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAAATCAGCAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCATAGAATTACTAACCTTA
CTGCCCCCTGTAGAATATGTATTAATCATTCTACATTAAGAAAAATAATGGTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTATAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAAATACTTACAAAAGTGG

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FIGURE 1158

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEETVFYGLQYILNKYLKGKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP I E I KAVPEGFVIPRGNVLFTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEKYLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTRKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTPAGNFVTLEEGKDL
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1159

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACTCCTCTGAAGCAAG
CTCCGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGGCAGAGTGAAGAGAAGCCCGTGCCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTGTTCATTAAAAAGAA
GCACTTTATGTAAAAA

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FIGURE 1160

MTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPEQPVVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFLDLKGECDIHENVDTDLPGSLGQSEEKPVPAAPVPSVAPAPVPSRRNPPGGKSS
LVLG

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FIGURE 1161

GGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTGCGAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCTTGAATTA
TCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTAGGGTCTATTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACITGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGAATATAAACTTGGTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTATAGTCATCTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTAAAATTTGGAGGGGCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATAAAACAGTAGCCTTTGCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTTCAATTCAACCTGTTTCTAGGTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAATTGATTTC
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTGTCCTTAACTCATAAGAATAATATTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTTGATTATTTTCAAGTTGAAAAGTAGAAGTTCCAAGTTTTG
ATTTTGGTCTGGTCTTTAAGTAAAAATTAAAGCAACCACTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAAATATATTGCCAAGCAACACTGTTAAAGAAAAGTAAACTCATTTTTTCTTGTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTGTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1162

MNARGLGSELKDSIPVTELSASGPFESHDLRKGFSCKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDTIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1163

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACCGCCGCTCAGGGTTTTAGAACTTCAGCCATAAAAAATGGGCAGAATTTTCCTTGATCATA
TCGGTGGTACCCGCTCTGTTTTCTTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCCCACTGGCAGAGCATTCTTTTTAAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCATGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAAACCTGCAATAGCAAACTGGGATGGATCT
ATGAGTTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCTGATCCTGGAACGTGCTCTAGTTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTTCCCAGGTCT
CCTTCACTGAAAAACAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAAATGAACTGCGGAAC
AAGAGGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTAAATTTTGTATTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGTGCTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAGAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTGTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATCTCTCTTGTCA
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCAACACATAATTGGTGTGATTGGAACTTTTTCTGA
GATGGGACAGAACTGCTGGGTTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAATAAAGTAATAGTTGGAT
GCTTTTGGTCTGTGTTGCTTTTTAAAAACACCTTATAAAGAGGAGAGTATTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTCTCTTAACTAAATTGACCATGCATATAATATTCTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCAGTGTTGCATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTATGCAAAAAACATTTAATCT
GCATCTGTTTTAGAAAAGGGGAAATGAAGCAACTTGTCTAAAAATACTGCTTTACAAAGCATTTCAGCCTTTCC
CCCTCAGTTTTGCATTGATTTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCTAGATCTCTTATT
TAGCATTTTTTTCAGCTCTTCTCTCAGAAGTTCAGCTGTTGAAACGAAAACCTGTACTTTGTACCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTATTTTAGCCCCAAATTTATGACATTACACAATATTAAAATGTAAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTGCTTCTGGTGAATTAATGACGGTAAAATTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCCTTTGTCTAGAAAGGAAATTTGCCCTCAG
TTGAATTAGTGAATATTTCTGTGCTTGATATTAAAAGTGACTCTGAGTACAGTTAAGTTCCCTCTATTTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAAGTAAAGTAGGTATGATACTGCATTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCAATTCATTCTCCATACTGGCTTTTGAT
TATATGCAGATTCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTGCTGTCACAATAAAGTATATTTTGT
CTTGCAAA

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FIGURE 1164

MGRIFLDHIGGTRLFSCANCDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVSKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPDINS

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FIGURE 1165

GCGACTCGTCCCGCCTTCTGGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAGATGGCGGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCGTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTTCATTAGGAACCTGCTAAGAATCGGCCCGGTCCCCAGACACGATCAGA
CCTACTGCTGTGAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTCTCCATGGATTCTGCCAGACTCAAA
AGTGGAGAAGATTGCGAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCTGCTGCCCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTGGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTGATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTTCCTGACCAATAAGAAGGGATTTCCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTTCATCATCAGGCACCAA
CCACCCTCAGAGAAGGAGTTCTGCTCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCTCCACCTAA
TGCCATGAACCTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTTTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGGGAGCAGGACGGGGACC
CCTGTGTAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTGAGTGTCTGGGCTCATTGTGCTGACAATGAATT
GTGCGCTGAGTGCCTGGATGGAGCCAGCACTTCTAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCTCCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCCTGA
GGCCCAGTTTGAGATGCCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCGGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCCATAACGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTCTAAACCCACAGGCCGCTCATATACCATTGGCCTCTAGCCCTGCGTGCCAAGTGTTCCA
GAGCCTTGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCAATCTGCTTCTGCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGTGAGGAATTAGTGTGATTGTAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTGAACGGATTTTCAGCCTTTTCTGTTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1166

MAAMAVGGAGGSRVSSGRDLNCVPEIADILGAVAKQGFDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPIRDPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDIIENAPTTHTEEYSGEEKTWMWWHNFRTLCDYSKRIAAVALEIGADLPSNHVIDRWLGEP
IKAAILPTSIFLTNKKGFVLSKMHQRLIFRLKLEVQFIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPLQPLMDNLESQTYEVFEKDPIKYSQYQQAIYKCLLDVRPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAKQADRRIKLYAVEKNPNNAVVTLENWQFEWGSQVTVVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFTFSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFGAGYFETVLYQDITLSIRPETHSPGMFSWFPILFPKQPI TVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 1167

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCCATGCCACAAGTGA
ACAGAGTATCTGCCAAGCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCCCGCCAGGTCTACGGCTTAACTTTGCAAGTAAAGAAGAGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGCCCTGAACATCATGAATTTCCCAAGAAGGAGGCCCTCCAGCCAGCGTCAGGTGCAGAATGG
CCCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCTCCACC GCCCCCCCCCCACCCCACTCCACCTCCACCCACTGGGGCTACCCACCTCCCCACC
CCCACTGCCAGCCGGAGGAGCCAGGGGTCCAGCCACGACGAGAGCTCCATGTCAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCAGTGGGACCTCAAAGTC
CGATGCCAACCCGGGCAAGCAGCGGGGTGGCGGAGGAGGCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAATCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACGTAAGGGGCCGGCCTCGCTGCGCTGATTCTGTCGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCAGCCAGCCCGAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTCAACTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCTAAGTCACCTGCTTCATTAGACGGTTTCCAGGTTTCTCCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCAGCGTGGCGCCACCACACCCGCAGAGCTGTCCAGGCAC
AGCTCCGTCCCCAGCGCTCATGGTGTGAAACTGTCTGTATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MATSEQSICQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVVINYISIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDSQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

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FIGURE 1169

GGGCTCTCTCCTTGTCAGTCGGCGCCGCGTGGGGCTGGTGGCTCTGTGGCAGCGGCGGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACATATGGTGCCATCCCTCAGA
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGTATGGAAAAC
CAGAAAATGAGTTTGCCTTTAATGCAGAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAAA
AAAAAA

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FIGURE 1170

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPYADKDVFMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRYVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRYKVPDGKPENEFAFNAEFKDKDFAIDI IKSTHD
HWKALVTKKTNGKGISCMNTTLESPPFKCDPDAARAIVDALPPCESACTVPTDVKWFFHHQKN

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FIGURE 1171

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG
GCGGCACGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACASGTGGCGCCMGSAAGMRGGTTGCTGTGTTTG
TGCTTCCTTCTACAGCCAATATGAAAAGGCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGT
ATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCACAAGAAGC
CTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGAAAC
AGAGGCTTGAAGAACTAAAAACAGCAGCAGAAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAGAAACTTGAAA
CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAAAGGAGTTTGGGCTTTGCAAACTGAGAACAAAG
CCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATGTTG
TCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCTCAGGTAGAAGAGGCCATTGTCCAGAGTG
GACAGAAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAGGAGAATTTGGAGAGCTGGCTAAATT
ATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCAAGC
GTGTGAAGGCAAAGAAGAATGCTGCTCCATTGAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGAAAACCTC
TTGGAGGTTTTTCAGGAACTTGACAGCAAAGCCATTGGGTTGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCA
GCATTATCAATAGCTTAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAG
TTGTCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTG
CGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGG
CTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTATGCTTG
CTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTGAGT
GGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTGGACTCCTCCTCCATATTTTAAAGAGAGTA
TTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAAGTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
AGGGCCCTCATTGGCCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGGACA
TACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGGAGAGGAGGATGACAAAGACAGTGACCAGGAAA
CTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGCTGCAGAAGAGACAGGGGAGGCACCTCTGAGGA
GACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGATAAAATCATTGAAGAGGATGATGCTTATGACTT
CAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTTTAAACATTTTAAGCAGACTGCTAAAC
TGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGCAAC
TTGGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAAAGA
AGATACCTATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLKEAKKQGHKKPRKDPGVPNSAPFKEALLREAEIRKQRLLEELK
QQQKLDROKELEKKRKLETNPDIKPSNVEPMEKEFGICKTENKAKSGKQNSKKLYCQELKKVIEASDVVLEVLD
RDPLGCRCPQVEEAIVQSGQKKLVLIILNKSDLVPKENLESWLNLYLKKELPTVVFRASTKPKDKGKITKRVKAKKN
AAPFRSEVCFGKEGLWKLLGGFQETCSKAIRVGVI GPNVGKSSIINSLKQEQMCNVGVSMGLTRSMQVVPLDKQ
ITIIDSPSFIVSPLNSSSALALRSPASIEVVKPMEAASAILSQADARQVVLKYTVPGYRNSLEFFTMLAQRRGMH
QKGGIPNVEGAAKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIVVDMKSGFNLEELEKNNAQSIRAIKGPHLAN
SILFQSSGLTNGIIIEEKDIHEELPKRKERKQEEREDDKDSDQETVDEEVDENSSGMFAAEETGEALLRRLQOVNS
LQGLLSWIKSLKRMLMTSVQIMCNRTMAFYDFFF

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FIGURE 1173

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACCTTGATAAGCATCTTGAAACACCATGGGCTGTA
GCTGCAGTAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATGTGATGCGGAGGTTCTCGGGGAATCAAAGAGAA
ATGTGCCTCATTGGCCATTGAGAAAATGCAGTCTGGTGATTTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCTGGATTGACATTCTCATTTAGAGAAACCT
ATTTCTTTTTTTCTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTCCATAGTGCCA
AAGCCATACATATTTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAAACGGGCTTCGTG
TTAGATAAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1174

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYN CNVELALTS DGR TIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNP PKDR

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FIGURE 1175

ACAGGGGAAATACCGCGGCGCCGGTAGTTGCTGTGGTTTTCCGTTCTGAGCTCGCAGCTTAGGAGCTGAAGATCGC
GGACTTAGCGTTGCCGCGTCCGAGTCCGGCCATCAGTGGCTGCAGATCCGGAGCCAGGAGCTCAACCACCCCTTCT
TCGGAACAGGGCCGGCCTGCTGCTGTGCCCTCGACGCTCGGTGCCTGTATCTACTCCGGGGCCTAGGTCCGGCTCC
GGGGGCGGCTTAGGAGAAGGCCCGCGGCGAGATGTTCAAAAACACGTTCCAGAGCGGCTTCTCTCCATCCTCTA
CAGCATCGGCAGCAAGCCTCTGCAAAATCTGGGACAAAAAGGTACGGAATGGCCACATCAAAAGAATCACTGATAA
TGACATCCAGTCCCTGGTGCTAGAGATTGAAGGGACAAATGTAAGCACCACATATACATGCCCTGCAGACCC
CAAGAAGACGCTGGGAATTAACTTCCTTTCTTGTGCTGATTATCAAAAACCTGAAGAAGTATTTTACCTTCGA
AGTGCAGGTACTAGATGACAAGAATGTGCGTCGCTTTTCGGGCAAGTAACTACCAGAGCACCACCGGGTCAA
ACCCTTTCATCTGCACCATGCCCATGCGGCTGGATGACGGCTGGAACCAGATTCAAGTTCAACTTGCTAGACTTCAC
ACGGCGAGCATACGGCACCATTACATCGAGACCCCTCAGAGTGCAGATCCATGCAAATTGTGCGATCCGACGGGT
TTACTTCTCAGACAGACTCTACTCAGAAGATGAGCTGCCGGCAGAGTTCAAACTGTATCTCCCAGTTTCAAGCAA
GGCAAAGCAATAAAGTGAATTGTGACTCGAGGGATAGACCCCTGGATGTGACTCTTCTTTTTAAAGGAACTAT
GTGGAGGACGATGCAAAAACATATTTATCTTAGTTTGCTCTGCTGTAGTTCTGTTATTTATACTTGGTGTGCTT
GTCATGGACACCGGTGAACATGCCGTAACCTCTGTGACTGCATTGTAAGTGCAGTGGGGGTAAGCAGTCCTGTGAG
TGGCGCATGAACGCTGGAGCTTATTCCGCCGCTGCCCCAGTGTGGGGGAGATACCTTTACCATGAACCTTACAG
AATTAAAGATGGCCCATAGGAATTCCAGACCAATATTTCTTCTGCGGTTTATTCTATGTTTTATATATTATCT
AAATATATGTATATGCTGTGTCATACTCATAATCTGGAAATGAATAAAGTGATATATTCTGGTTTGTAAAAAAA
AAA

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FIGURE 1176

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPF
LVMIKKNLKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLDDGWNQIQFNLLDFTRRAYGTNYIE
TLRVQIHANCRIIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ

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FIGURE 1177

ACCCCATCCCCACTCCTATACCGGTCCTCCATTTTGGTGCCTGCAAAGCTCTGGGAAAGAATCCCGGGAAACGA
AAAATGGTGGGTTTGGGGGAAGGGAGGTAAGGGGAGAAAGCTGGAGGGAGGGGCTTTAATTGGAGGCCCCGTAGA
GGACGCGCGGAACCTTAAGGTGGGAAAAACGAAATTAATAATCCTTTGATATCAGGGCTCTGAATCCTGCTG
GTCAGAGCACCAAGCATTCACTCTCTCTCCTTGCCTTTGTCTTACTTGTGTTCAAAGAAAAACAACCAGAAAAA
AAAATCTCATCATGGCAAATATTCACCAGGAAAACGAAGAGATGGAGCAGCCTATGCAGAATGGAGAGGAAGACC
GCCCTTTGGGAGGAGGTGAAGGCCACCAGCCTGCAGGAAATCGACGGGGACAGGCTCGCCGACTTGCCCTAATT
TTCGATGGGCCATACCAATAGGCAGATCAATGATGGGATGGGTGGAGATGGAGATGATATGGAAATATTCATGG
AGGAGATGAGAGAAATCAGAAGAAAACCTAGGGAGCTGCAGTTGAGGAATTGTCTGCGTATCCTTATGGGGGAGC
TCTCTAATCACCATGACCATCATGATGAATTTGCCTTATGCCTTGACTCCTGCCATTTATCATGAGATTAATAC
TGTGATCCCGCTGTTTTCTTTTCTTTCCTTGCATTTTCTAATATGCCTTTACTGATCCGTTTGCTGTGAACCCTAT
GTTATTTCCATGTGTCAAGTGGGTCTTGTGTTGCCAGCTTCTATTTGAAGATTGCCTTTGCACTCAGTGTAAGTT
TCTGTCAGCAGTAGTTTACCCATTTGCATGGAAAAATTTAAAGCTAATAAAGCAATTTAAAAAGC

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FIGURE 1178

MANIHQENEEMEOPMONGEEDRPLGGGEGHQPAGNRRGQARRLAPNFRWAIPNRQINDGMGGDGDDEMEIFMEEMR
EIRRKLELQLRNCLRIILMGELSNHHDHDEFCLMP

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FIGURE 1179

GACATGGAGCTGTTCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTGCCCCGTGCTGCAGCCCTTCCTGGAGGTCAACAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACCTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTIGCCGGTGGAAGGGGGCTTCTGGGCCTGCTAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCCAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1180

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLRECPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAVALLPFLEVTKAEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPITVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

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FIGURE 1181

CGGCGACTGACCGTGGTCGTGGGCGGACGGCGGCTTGCAGCGTGGAGGAGCTGGGGTCGCTGTGGGTGCGGAAGC
AGAGCCCCGGGACGTGCGCGCTTGGTGCACGATCCTGAAGGGGAGCTCCGAGGGGCCCGGGTCGCCAGGGCTGCTG
CGGCCATTCCCGAGCCCCGGCGCGGGGCCCGCAGATACTGGTTTAGGCCGTCCCAGGGCTCCGGGCGCACCCGG
TGGCCGCTGCTGCAGCGGAGGGAGCGCGCGGGGCTCGGAGACAGCGTTTCTCCCGGAAGTCTTCCTCG
GGCAGCAGGTGGGAAGTGGGAGCCGGAGCGGCAGCTGGCAGCGTTCTCTCCGCAGGTGGGCACCATGCGCCCTGC
AGCCCTGCGCGGGGCCCTGCTGGGCTGCCCTCTGCCTGGCGTTGCTTTGCCTGGGCGGTGCGGACAAGCGCCTGCG
TGACAACCATGAGTGGAAAAAATAATTATGGTTCAGCACTGGCCTGAGACAGTATGCGAGAAAATTCAAACGA
CTGTAGAGACCCTCCGATTACTGGACAATACATGGACTATGGCCCGATAAAAGTGAAGGATGTAATAGATCGTG
GCCCTTCAATTTAGAAGAGATTAAGGATCTTTTGCCAGAAATGAGGGCATACTGGCCTGACGTAATCACTCGTT
TCCCAATCGCAGCCGCTTCTGGAAGCATGAGTGGGAAAAGCATGGGACCTGCCCGCCAGGTGGATGCGCTCAA
CTCCCAGAAGAAGTACTTTGGCAGAAGCCTGGAACCTCTACAGGGAGCTGGACCTCAACAGTGTGCTTCTAAAATT
GGGGATAAAACCATCCATCAATTACTACCAAGTTGCAGATTTTAAAGATGCCCTTGCCAGAGTATATGGAGTGAT
ACCCAAAATCCAGTGCCTTCCACCAAGCCAGGATGAGGAAGTACAGACAATTGGTCAGATAGAACTGTGCCTCAC
TAAGCAAGACCAGCAGCTGCAAACTGCACCGAGCCGGGGGAGCAGCCGTCCCCCAAGCAGGAAGTCTGGCTGGC
AAATGGGGCCCGCAGAGCCGGGTCTGAGAGTCTGTGAAGATGGCCCAGTCTTCTATCCCCACCTAAAAAGAC
CAAGCATGATGCCCAAGTTTGGAAATATTCTGTTTTAAAAAGCAAGAGAAATTCACAACTGCAG

1312/2682
FIGURE 1182

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPDYWTIHGLWPKSEGC
NRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFWKHEWEKHGTCAAQVDALNSQKKYFGRSLELYRELDLSV
LLKLGIKPSINYYQVADFKDALARVYGVIPKIQCLPPSQDEEVQTIGQIELCLTKQDQQLQNCTEPGEQSPKQE
VWLANGAAESRGLRVCEGDPVFYPPPKKTKH

1313/2682
FIGURE 1183

GAATTCCGAGCTTTTTATTCCCTAAGAGGAGAAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTC
ATCCCTTGCTCTCGCCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCCTCTAAAAGCAGTTTAGAGTGTTAAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCCCTAAGAGGAGAAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGC
TGGTTCTCTGGGATATAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTAGTCTATACATCAGATTTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTCAATAAACTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTA
TAGCTTTTTTAACAACATTGGAAGGATCCTTCCTGAGCGTTTCCTGGCAGTTTTTAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATAAGCACCTAGTTTTCTGAAAACGATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAATTTTAAATGTTTGAACCTCTGTTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTTGATTGCACTTAAATTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTACAAATGAATATCATGAACTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

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FIGURE 1184

MKFLLDILLLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLKSKLVLDINKHGLEE
TAAKCKGLGAKVHTFVVDSCNREDIYSSAKKVKAIEIGDVSILVNNAGVVYTSDLFATQDPQIEKTFEVNVLAHFW
TTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKTLDLAALQITGVKTTCLCPNFVNTGF
IKNPSTSLGPTLEPEEVVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKRKISVKFDAVIGYKMQ

[illegible]

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FIGURE 1186

MLESSGCKALKEGVLEKRS DGLLQLWKKKCCILTEGLLLIPPKQLQHQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKLHFSNMKTVD CVERKGKMYFTVVMAEGKEIDFRCPDQGWNAEITLQMVQYKNRQAILAV
KSTROKQQHLVQQQPPSQPQPQLQPQPQPQPQPQPQSQPQPQPQPKPQPQLHPYPHPHPHPHSHPHSHPH
PHPHPHPHQIPHPHPQPHSQPHGHRLLRSTNSA

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FIGURE 1187

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAAGTTCTTGGATCTGCGGGTTATGCGCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACCTTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAGACCAAGAGGTCCGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTAAACGAAGGACATAGTTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATAATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTCGCCAGGAAGTATGTTTATATCTTACCTGATATCACTAAAGATGAACCTCTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATCCCTTATTGCATTTTCCTTATGTATAATTTTCC
AGATGGTGTGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAAATGGCAGGAACAAGGACT
GCATAGAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1188

MAGPLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQGRTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNNGGVTTAFYDPRSLDIVCKPVPFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPRQIFFGLAPGWVNMADKKILKPTDENLLKYYTS

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FIGURE 1189

GGIATCGATAAGCTTGATATCGAATTCGGCACGAGGCCGGGGCCCGGGGGCTGCTGCGGGGCGATCGGGCCGGGC.
CGCTGCCGCGCCATGGACTCCCGTGTCCAGCCTGAGTTCCAGCCTCACTGAGTGGCCACCCCCAAAGTGCTGCCA
GCCGAGGAAGCCCCCAGCACTGACCATGTCTATTATGGACCACAGCCCCACCACGGGCGTGGTCACAGTCATTGT
CATCCTCATTGCCATCGCGGCCCTGGGGGCCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAG
CCAGTCAGAGGACGAGGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCCTTCCTGCTGGTGCACTATTTCGGC
CAAGGGACCGTGCGTGGAGAGAAAGGCCAAGCTGATGACTCCCAACGGCCCGGAAGTCCACGGCTGAGCCAGGAT
GCAAGGCTCCTGGTCTGTTTTCAGCCGGCCAAAGAGGCGCTGGGAGGGGCAAAACCATACGGATGCGTGCTGTC
TGAGAGGAAGGGCTGACACTTGCTGGCATGGCCTCTGCGGGCTTCGTCATCGCATGCACTGATGCCGGGGACCT
GGCTGTCTGGGCTTCCCTTCGGCCTCCAGGTGAGGCTGCCATTGCAAGCACTGGGCAGGCTGACCTTGCTGG
GGCTCATGGCCTGTAGCGCTTTTGTACTTGAATGTCTAGCTGAGCCTGTTTTTGTAGGAGCTACTACTGTAAT
GCGTGAATAACAAACCTGTGAATGTAAATAGGCCCTGGAAGCACGTGCTTAAGCCCTTTTGTGATTTTTAA
AAATATCATCTAGCGCACACGGGACTGGTATTCTGGCTGTACTAATGACAAGCTGAGTCAAGACCCTGGAGGGTC
ATAGGCTTGTAAAGGCCACGCCACACTCGGCAGGGGTCTCTCATGTGTGTCCATCTGCGTGTATGTCAAGGAAG
TGAGATGCCAATTGGGGTCTTGAGGCTGACCAGTTGGGGTGCTTGGGTGATCTCTGCTTCGTAGTCATGGGTG
GAAGAAAACCCACACCYCYMRMCCCCCTCCGTTCTTCTGCATAGACTCACTTGTTAAATAGCAGTTCTGTTGAG
AGTGGAGTTACTGCAGGGAAGCTACCGGACCTGCCCTGGGAGCCAGTGAAGGGCGAGTCAGGGCACGCGTCTGGA
GGCTGCCAGCGTCCCTGTAGCAGAGCAGTTTCTTGGCGCTTGGGTCTTCAGCACGCCAAGCCCCCACCACCCCT
CCACCCCCGAGTGAAGGCTTCGCTGAAATTGCTTTGGTCTCATAGAGCCTGTGGTGGCTACTTTTGGTCTGAAA
CCCCTTGGCCCCAGGAAAGAGAAAAGTTGTATGTTTTTGTGTTGGTGTTCCTATTTTTCTGCACTGGAGGGGAGG
GGACTGTTGAGGTTCTGTCTTTTTTCTTCTTTCTTCTTCCCTCTTCACATCACTTGGCTTCCTTTCTCTCTGA
TGACCGTCCGCTATGGGGTCTGACTTCACTTTCTCAGCGGTCTCCAGTCCCCTGACCCAGCTCTAAAGGCA
CTTAGGACCCAGGGAACATTTCTCACGTGCACATTCCCTAAGAGCCACCAGACTGCTTCCTGCCAGCCTGTGCT
TGCGGCAGGGAGCCGGGGCAGGGCAGAGGTGACTTGAAAGTTCAAGACTTGACTCTCCACAGGTGGTGAGCTGG
TGCTCTCTGGTGAGCTAGTGTCTCCACAGMCWVTCTCCAAAGGCTCCCTATGTACATTTGAGTGAGCTCACTT
TGATTTTTAATCCACACACAAGCACATACTAATTTTTATTATGATTCAAATGTGACTCGTGCCCTGCCCATCCCTG
TAATAGATGGAAGGTGAGCCCCGCTTAACCACAGAGCACTGGCCCTTCATGGCTGAGCTCAGAGCTCTGGCCCTC
CTGCTCAGACTAAAGGCACCTCTCTGGCCTCACCCAAGCCTCTTCTAAAAACCATGTTGAATGAATCCACGTTT
TGGAACCCCGAGGCGGGGAGAAGTAGGGAGCTGTTGTTTTAAGCAGCATACACCTAAATTGGGGGTTTAAACATTA
AGTAGGAGCTTGGGGTGAAGAGGGACAGCCGGCTGGGCCACCTGAGCAGAAGGTGGTAATGAAACACCTCAGCT
GGGCTCTTGGGAGACCTTAGGAAGCAGGAGAGGCAACACCTCTGGCTACTGATGGTGTTGGCAAGTTTCAAGAGG
TGGTGGTGGGGTAGGCGTGATGTGAGCAGAAGCCCTGCAGGCTGGGTGGGCAGGACACGTGGTGGGGGCCACTGA
AACCAGGCCTAGGAGGGGAGAACAAGTTCCAAAGGTGCCGACTGGAAGAAGGGGGTAAAAGTTTGTCTTGGTGAGT
GAGAAAAGGCTGGGGCGTGTGATCCATCCCTCACGTTTTCAGAACTTCCAGGCTTTCTACCTCGACTCTCACCAC
AGCCAGCACATACACCTAGGCTGTTTTTCTTCTCCACACCTGAGGGACGCAGCAACAGCTAGGATCTGCATTT
TCAGGTTCCGAGCCTGACCCCTGGAAGTACCAGCGCTCGATTGTGAGCCTTGGCCTGGGGTTTTGACCTTGCCA
GTGAAGTTTCGGTTTTGAAGTGATTAAATGTCACTTCTCATCAGTTTCACTTCTGGAGGTTTTCTTATCCTACT
CCCTGGTGGCAGGGACGTACCTGGGAGTTTTGAATCAGGCCCATTTGAGCGTGGCAGCCGTGTTGGGTGAAGGTCC
GGGGCTCGGTGAGGCACTGGGGGGTTTTTCGGGAGGAAAATGAAAATGCTTCTAGAATGAGTGAACCATCATATA
GCTCTCACTGTTTTTTCAATAGCTACTTTTTTTAGCAGACACCAGAGCCACACTCAAATGGCTAAGTAGGTTATG
ACCTCTCTGGATTATTTTTGAATGCCCAACTGTGCAATTCAAGTTTTCTGAACATAAAGAAATTAAGCATTCA
TCCTTCGTATCACTGCAGAAGCAACAGTGGGGGCACAGGGAGGGAACCTTTGACACTGAGCCACTAAAATATGGA
CTAATTTTTTGGACAAATCTTCAAACGGACTGTGCTACTGTATTGTCTCAAAGCTACCAAGTTTGTGCAATAAG
TGGAAGGGATGTCATCCTTCTTCAATAAATGCTGAATGACATTCAAGCTGATTTTCTAGACCACTGAGAAAAATCT
TTATTTACAATAAATTTCAATAAATTTGCATAAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MSIMDHSPTTGVVTVIVILIAIAALGALILGCWCYLRRLQRISQSEDEESIVGDGETKEPFLVQYSAGPCVERK
AKLMTPNGPEVHG

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FIGURE 1191

GGAGCTCTGGAGGCGGGGCTTCGAGCGTGGCTCGTGGGTTTTCCGTGAAGTCGCGGTGCAGCGGTGGGCGGCATG

TCTGTGGCCGGTGGGGAGATTCTGTGGGGACACGGGGGGAGAGGACACTGCTGCTCCCGGCCGGTTTCAGCTTCAGC
CCGGAGCCACGCTCGAGGACATCCGCCGCTCCATGCTGAGTTTGTGCGGAACGAGACTGGGAACAGTTCCAT
CAGCCTCGGAATCTCCTCCTGGCCTTGGTTGGGGAAAGTGGGGGAGCTGGCAGAACTCTTTCAGTGGAACCCGAT
GGGGAACCTGGCCCCCAAGGCTGGTCCCCCAGGGAACGGGCAGCCCTTCAAGAGGAGCTTAGTGACGTCCTCATC
TACCTGGTGGCATTAGCAGCCCGCTGCCGTGTGGATCTGCCGCTAGCAGTGCTCTCCAAAATGGACATCAACCGG
CGACGCTACCCAGCCCATCTGGCCCCGAGCTCTTCCCGCAAGTATACAGAATTGCCCCATGGGGCCATCTCTGAA
GACCAGGCTGTGGGGCCTGCGGACATTCCCTGTGACTCCACAGGCCAGACCTCAACCTAGAAAGATGGCCACAGG
ACTTGCAACTCAGGGTGGTGTCTGAAGAGCAGAGAGTGGCCTGGCCCTGGAGCCTTTTTCTAGTCTTTTCAGAA
AGATCATGGGCCTGAGGCCTCCACTTCTTGAGGTCTGAGGCCAGCAGCCTCTAGAAGGTAGCCTCCTGGTGT
GTTCTCCAGTAAATGGTTTTGGGCGATAACTTCTAGATTATTCCTGGATGGCCAGGGAGGCTCTCTGTCTCAG
CAGGTGATGACGGGGGTACAGGGGTGCCTCTGAGACCCATTCTCGTGTTCCTGTTGTACCTTTTGCTGTCAG
GGCAGAGAGATCTGGTTTCTAGCAAATTCAGTAGGATGTCATGTAAGTTCCTTCCCCCTCTTAGAGATTGAAG
GCTGTAAGAGTCCAGATGGTGGAGCCAGGCTGTCTGGGTTCAAATGCCATCTTTGACACTTGAAGCTAAATGAC
ATTACTCAAATTAATCGTTCTGCACTTCAGCTTCCTTGTCTATCAAATAAAAAGAATAGTACCTGCCCAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1192

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGELAEWFQWKT
DGEPPQGWSRERAAEQEELSDVLIYLVALAARCRVDLPLAVLSKMDINRRYPAPHLARSSSRKYTELPHGAIS
EDQAVGPADIPCDSTGQTST

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FIGURE 1193

GGCACGAGGCAGAGGGCGGTTCTGGAGTTACAGCCGCGTTTGGCGGGACGTGTCTGCGCGGCAGTCCTGGCCTGT
TGAGCTTGTCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCCGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCCTCCTGGGGCCTTCCTGCCCTTTGAAGTGCAGTGGCGGGCGGGCGCACGGTCTCCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATGGCCACGCGCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGGACATACT
GTGGCGCGTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGTCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTGTTTTCATCTATACAGTGGCTGTCTGATTCTTTCAGTGACCTGTATAG
TTCCTATGTAATCTTTTACTTCCTGCTGCTGTGTCAGTGGTAATAATAATAAGTATTTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCAGACTAGCTCTGATAGGGAAGATCATTATCCTCAGCAACTCATGCA
CTCATTATTCATGCTGCAATGGGAATGGTGATGGCTGGTGTGCTGTCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCCTGCACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGGAGCATTATGGGCIATAGCTATAGCCTCCTGTATTTTGTAAACAACATGAACATCTCT
TCCATTTCCCATCATACAGCAATACAAGTTCTTGGCTTTTAGGAGATCTCTGCTCTTATTAGTTAAACACAGTTG
TGCGAATCACTGTTCTTGGTTAGAAATTTCTGCATTTTATATTATTTTCTTGGCTATATTTCCCAAAGCTTGGAT
TAGCAGTCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTTCTCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCAACCACCATTGTCAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTAAATAGCAATCCTCCCCCATCAAAAGTATTTAGCCTTGCAGGACCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAAGTTTTAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAAG
GGAGTGTTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGTCTTCATCTTACCCAGTGGAACTAAGAAATTAATTTCTCCAGAAGAACTGCTTTTTCAGACACCAAATC
TAGCCAGATGCCCTCGGCCCTCAGTGCCACCATTAGTTAAAACATCACTGTTTTCTTCAAATATCTACACCTGA
TGTTGTGAGCCCATTTGGGACCCCATTTGGCTCTAGTGTAAATGAATCGGATGGCTGGAATTTTGTATGTAAACAC
CTGCTATGGGTACCCGCAAAGTCCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCCTTCTCCATCTACCTCTATTAGTGTGAGGGTAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGATTTCAGAATAAACGTGAACAGATTAAGAATTTCTTGTCAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCTCCATTTCAGGCTGTTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTGCACTTAGTAGCAGCATCATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATACTTTGTTGACACTGCAAGAGGCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACCACCCCG
GATTTTCAGGAAGCCTTGTGGACACTTCATATAAAACATTAAGATTGCAATTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAAATAGTTAAGTAATATAAACTGTGTTCATTACACTGCTGATACAACCTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCCTTTGTGCTGGTGGTTGCT
TTGAAAACCTATACTTTAATGGGAGAAATCATGGAAAGAAATTTCTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAA

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FIGURE 1194

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVFLP ICTTVFIIFSRIDL FHP IQWLSDSFSDLYSSYVIFYFL
LLSVV IIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFP I IQQYKFLRFRRSLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLD TVSGLLNL SLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPI IKYLALQDLMLLSQYSPSRREQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAAATNGRVSSSY PVEPKLNSPEETA FQTPKSSQMPRPSVPPLVKTSLFSSKLSTPDVVS PFGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRG PRLWTSASDQOMTEFSNPSPSTISAEGKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMH IWALEGLSHLVAASFTEDRFGVVQTTLPAI LNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTT FGEHLNAVQASAEHQRLQQFLEFKE

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FIGURE 1195

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCGCTCGCGCTCCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCGAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGCC

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FIGURE 1196

MSPSGRLCLLTIVGLILPTRGQTLKDTTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPTPTWPADETPQPQTQT
QQLEGTGGLVTDPEIHKSTKAAHPTDDTTTLSEKPSSTDVQTDQTLKPSGFHEDDPFFYDEHTLRKRGLLVA
AVLFITGIIILTSGKCRQLSRLCRNRCR

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FIGURE 1197

TGGCGGCGGCGGCGGCGGTTGTCCCGGCTGTGCCGTTGGTGTGGCCCGTCAGCCCGGTACACAGCGCCCGG
CCGCGTCGAGCCAGTACAGCCAAGCCGCTGCGGCGGGGTCCGGCGGGGCGGCGCGCAGACGGAGGGCGGCG
GCCGCGGCCAGGCGGCCCCGTGGGACCGGGGCCCGGCGCAGCGCTGCCCGGCTCCCGGCCCTGCCGGCTCC
TCCCTTGGCGCCGCGGCCATGGCGGCCAGCGCGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGAC
ATGACCGGCCTCCCGCGCAACCGAAAGTGCTTCGACTGCGACCAGCGCGGCCCCACCTACGTTAACATGACGGTC
GGCTCCTTCGTGTGTACCTCCTGCTCCGGCAGCCTGCGAGGATTAAATCCACCACACAGGGTGAAATCTATCTCC
ATGACAACATTACACAACAGGAAATGAATTCTTACAAAAACATGGAAATGAAGTCTGTAAACAGATTTGGCTA
GGATTATTTGATGATAGATCTTCAGCAATTCCAGACTTCAGGGATCCACAAAAAGTGAAAGAGTTTCTACAAGAA
AAGTATGAAAAGAAAAGATGGTATGTCCCGCCAGAACAAGCCAAAGTCGTGGCATCAGTTCATGCATCTATTTC
GGTCCCTCTGCCAGTAGCACAAGCAGCACACCTGAGGTCAAACCACTGAAATCTCTTTTAGGGGATTCTGCACCA
ACACTGCACCTTAAATAAGGGCACACCTAGTCAGTCCCCAGTTGTAGGTCGTTCTCAAGGGCAGCAGCAGGAGAAG
AAGCAATTTGACCTTTTAAGTGATCTCGGCTCAGACATCTTTGCTGCTCCAGCTCCTCAGTCAACAGCTACAGCC
AATTTTGCTAACCTTTGCACATTTCAACAGTCATGCAGCTCAGAATTCGCAAATGCAGATTTTGCAAACCTTTGAT
GCATTTGGACAGTCTAGTGGTTTCAGTAATTTTGGAGGTTTCCCCACAGCAAGTCACTCTCCTTTTACGCCCCAA
ACTACAGGTGGAAGTGCTGCATCAGTAAATGCTAATTTTGTCTATTTTGATAACTTCCCCAAATCCTCCAGTGCT
GATTTTGAACCTTCAATACTTCCCAGAGTCATCAAACAGCATCAGCTGTTAGTAAAGTTTCAACGAACAAAGCT
GGTTTACAGACTGCAGACAAATATGCAGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGAT
CAGGGAAGTGCTTTGGGACCACAGGTAAGCTCCTGTTGGTTCTGTGGTTTCAGTTCCCAGTCAGTCAAGTGCA
TCTTCAGACAAGTATGCAGCTCTGGCAGAACTAGACAGCGTTTTCAGTTCTGCAGCCACCTCCAGTAATGCGTAT
ACTTCCACAAGTAATGCTAGCAGCAATGTTTTTGAACAGTGCCAGTGGTTGCTTCTGCACAGACACAGCCTGCT
TCATCAAGTGTCCTGCTCCATTTGGACGTACGCCTTCCACAAATCCATTTGTTGCTGCTGCTGGTCCTTCTGTG
GCATCTTCTACAAACCCATTTAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCCATGAGC
ATGCCCCAGGGATTCCGGCACTCCTGCTCCCTACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTACGAGCCTGCC
TTTCCAGCCCAAGCAGCTTTCCCTCAACAGACAGCTTTTTCTCAACAGCCCAATGGTGCAGGTTTGCAGCATTT
GGACAAACAAAGCCAGTAGTAACCCCTTTTGGTCAAGTTGCAGCTGCTGGAGTATCTAGTAATCCTTTTATGACT
GGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCTTATAGCCTTATATAGACAATTTA
CTGGAACGAACCTTTTATGTGGTCACATTACATCTCTCCACCTCTGCACTGTTGTTCTGTTTCACTGATCTTAGC
TTTAAACACAAGAGAAGTCTTTAAAAAGCCTGCATTGTGTATTAAACACCAGGTAATATGTGCAAAACCGAGGGC
TCCAGTAACACCTTCTAACCTGTGAATTGGCAGAAAAGGGTAGCGGTATCATGTATATTTAAATTTGGCTAATATT
AAGTTATTGCAGATACCACATTCAATTATGCTGCAGTACTGTACATAATTTTCTTAGAAATTAGCTATTTGTGCAT
ATCAGTATTTGTAACCTTTAACACATTGTTATGTGAGAAATGTTACTGGGGAAATAGATCAGCCACTTTTAAGGTG
CTGTATATATCTTGGAAATGAATGACCTAAAATCATTTTAACCATGCTACTGGAAAGTAACAGAGTCAAAATTG
GAAGGTTTTATTCTTGAATTTTCTTTCTAAAGAGCTCTTCTATTTATACATGCCTAAATCTTTTAAAA
TGTAGAGGGATACCTGTCTGCATAATAAGCTGATCATGTTTTGCTACAGTTTGCAGGTGAAAAAAATAAATAT
TATAAATAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 1198

MAASAKRKQEEKHLKMLRDMTGLPRNRKCFDCDQRGPTYVNMTVGSFVCTSCSGSLRGLNPPHRVKSISMTTFTQ
QEIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVHASISGSSASS
TSSTPEVKPLKSLLGDSAPTLHLNKGTPSQSPVVGSRQGGQEQEKQFDLLSDLGSDIFAAPAPQSTATANFANFA
HFNSHAAQNSANADFANFDAFGQSSGSSNFGGFPTASHSPFPQTGGSAASVNANFAHFDNFPKSSSADFGTFN
TSQSHQTASAVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQGSFGTTGKAPVGSVSVPSQSSASSDKYA
ALAE LDSVFSSAATSSNAYTSTSNASSNVFGTVPVVASAQTPASSSVPPFGRTPTSTNPFVAAAGPSVASSTNP
FQTNARGATAATFGTASMSMTGFGTPAPYSLPTSFSGSFQQPAFPAQAAPFPQTAFSQQPNGAGFAAFGQTKPV
VTPFGQVAAAGVSSNPFMTGAPTGGFTGSSSTNPFL

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FIGURE 1199

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCGCTTTCCAGCGCGGAGT
CGGGCGGGGTAGGGCGCGTTCGCGTGCGTGACGTATCCAGCGCGCCATCGGAGGCTCCAGTGGCCTTGACCT
CCCGCGTCGTGTAGGCCTGCGCGGCGATGCTGACGTTTCGTCCGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCG
GCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGG
GTCTCCCGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTGCG
AGTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCGATGTTTTCGCCACCGCGCCCA
GGCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGA
GAGCCGAGGTGCGGGGCGGTGGCGAAAGCCTTTGGCCGAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATC
CGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCACAAGTTACTACTACATGCTGCCCA
TGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACT
CCCTAGAGCTGCCCCACGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTAC
TCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACT
TGATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTGG
CCTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCG
ACTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTC
TTCTGAGCCAGGCCGAGCCCTGGACGACTTGGGAGCCTCAGGCCACGCCCCACCTTCGAGGAAGGTGTCACCT
GGCCCCCTTATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGG
AGAGCCCAGACGGGGCTTCTTGATCCATTCCCTCTTTTGTTTTTTAAATAAATTGTATTTTGG

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FIGURE 1200

MLQFVRAGARAWLRPTGSQGLSSLAEEAARATENPEQVASEGLPEPVLRKVELPVPTHRRPVQAWVESLRGFEQE
RVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEVRRGGGKPLAERHWAGPAWQHPLSALARRR
CCPWPPGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYRRWGSVLLVDLTSEE
MPQSIVEATSRLKTFNLIPAVGLNVHSMKQTLVLTLPVAFLEDKLLWQDSRYRPLYPFSLPYSDFPRPLPHA
TQGAATPYHC

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FIGURE 1201

TTTTTTTTTTTTTTGGAGTTATACCTTTGGTTCTGTTTTTACCCTTTATTTGGAATACAGTGCAACATTACAGT
TTTGGATCATTAAATGAATGGACTTGGTGATATAGTACTAACAAGCACGACCTGAATTCTGGGAGTAAGTGGTTT
TCTAGTTTCATGGGGGAGGAAAACAGATACGTGCAAGATCTCCAGAGGAGAACAGAACCATGGTACTCAGTGAGTC
ACCAAAGGGCTTTGGCTTCAACTCACTAATGGCTGGAACAAGTGCCAGTCTTGGTCAGCCATCCAGGATTTTCAT
CACAGCAAATCAAATCTCCAATTTTTCAAATAATTGTAGGTAGAAGAGAGAGAATAACTCCAACTGTCTTAT
AAAAGGATCTAGATGACTACTGAAGTGTCTCCATTTCATGAGTTGGCAAAATCTTCAGAGTGACTGTTGGAGCAA
GGAGCCTTTTCATGTGCTCCAGTTATTATATAGTGCATAGAGGCTGGTAAGTGTTAGTCTGTGACACCACCTCG
TGCTATCCCTCGAAGACCACCTTTGGACTCTGGATGGGTCTCCAAATATTAACCTTGAAGATTAGTGACGGCCA
GGCATGGTGGCTCACACATGTAATCCAGCACTTTGGGAGGCTGAGGCAGGCTTGAGCTCAGGAGTTTGAGAACA
ACCTAGGCAACACGGCAAACCTGTCTCTGCAAAAAATAGAAAAATTAGCTTAGTGGGGTGGCATGCGCCTGTG
GTCCAGCTATTTGGGAGGCTGAGGTAGGAGGATCGCTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATT
ACACCCTGCACTCCAGCCTGGGTGACAGAGTGAGAAAGAAAAAATGTGGTAAGATAGCTATAATCACACT
TTGAGTTAGATGCTGGTGACCACCCCCACTTCATGCACTGACGCATCAATCTCCACAATTAACAAACAGTGAG
TGACACCTAGCATCATGCTAGTTGAAAAGAACTCAAGAATTACAGATATTGAACTACCTGCTTGATAACAAGTGA
ACAATTTTACATGTGGCAAAAGATTAGCAACAAGGATTTCACTTGCAATGGAGAAACAAAAATATTTCAATCGGT
TACTTAAAAATAGTCCCCAAGTGTAATAAAAGGAAGCTACAGATAAATTTCTCAAAATAAAAAGGCCTAAGTGC
TTATGGTTATAAAATGTTAGTCTTACAAACGTAATGTGGCAAAGAGAAACCAAGCTACAAAACCTCCTCAGGAATG
GGGGTGCCCAAAGCAGCTTTTTTAAAAAATGTGAAGTCTCAAGCAGCTCCATGAGTAGGGATCATAAACTTCAGG
TAGCCATCTTTGTACCTAGAGTGATTTGTTCCAAGTCATGTGTTAGGGAGACAGAGGTAGAGCGGAGTTGTGGG
GGTGGCTAGAGGCCCTTTTAGCTCCGTGCCTGTCAATTCTGTGACATTCAGTGATGTTGCTGAGCTACAACATTT
CAGAATAACCATTTCTGCAACGAGCGTCTACCAGATGGCTTCAGCTGATGGATTAAAGGGCCACTCCCCCTCC
AGGAATCTCTCCAGTCTGAAGACTTCTGATAGCTGACCTGCTTACGTTCTTCTAGTTTTTCCAATGCTAAGTGTC
ATAATTATCTCTCTCAAACAGAACTGCAGACATTATCTATAAACAG

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FIGURE 1202

MVLSESPKGFNFNSLMAGTSASLGQPSRIFITANQNLQFFKLIVGRRERITPNCLIKGR

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FIGURE 1203

GCAGAGGTGCGGCCGGGGAGGCGCGCGGAGGCTGGAGCTGGAGGCGCGGCCGGGTGAGCTGAGAACCATGTGTG
CTCAGTATTGCATCTCCTTTTGCTGATGTTGAAAAAGCTCATATCAACATTGAGATTCTATCCACCTCACACCAG
TGCTAACAAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTTCTTCAAATGTGAACCTCTCCAGAAAAACG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTCAGAAAGCTTGGTTCTGATGCTTTAGAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCCTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAAGCTTGAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTTGGTGG
ATGCACTGGTGGTACCTGTAGGTGGAGGAGGAATGCTTGGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTTCAAAGCTGTTTCCC
CGAAGTAAAGAACATTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTTTTAATTTACAGAAAAGGAAATGGTGGGAATTCAGTGT
TTTGAATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTTCAATAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAAAAACTTTTATACTTAAGTACATTTTGTCAA
GGCTAAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAAATAAAGTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCAGGTAAGACAGAACTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTCAAGCCAGGGTACTGGTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAGACTCGTTTATACAGGTTTCATCAGTACTGTGCTTGAGATTTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAAACAGTCCGTCAAATTAAGTAGAAAAATTTAAAGCAATGA
CTTCCAAACCAACAGTCATTTAGCAACACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTCTTGATATGTCCTCTCCGGCCCCACTTCGTTCTCAGTTCCTGTTTAAACCACAGCACATCCTCTTA
GAATCAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCAACCTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTCATAACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACTCTCTGATGACCATTCTGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAAGGACAAAAGCAAAGAAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCACACTTAACCTTGTCATAGGTTCTTGAAAAGTGTACTTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTTGAGGAC
TGGCTATACACTGTTTTCAGTAAAAGTTGGAGTTTTCAATTGTTCTATTAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTGGCTCCCAAATTTAAATAACAAGAGAAAACGGTGTTCAT
CT

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FIGURE 1204

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVA AVL SQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1205

CACGAGGGGGACCCGGGCGCGTGGGCGCCGGGATGGAGGGCGCCAAGGGGCGGGGAGCGGGCGTGCGTGTGTGT
GCGAGTGC GAATGCGAGGGAGGCCGGCCTTGAGTGAAACCGGAGCTACAAAGAAGGGGAGAGTCCGGGAGCGGGA
GGGCGCGAGGGAGGAGCGGCGGCTCCGGGGCAGCTCCGACGCCCTCCCGCGGGGAAGGAGCCCCCGCGGTGCCGC
CGAGGCCCGACGCGGGGCCGCCCTCGGCTCGCCGCCCGCGCCCGCGCCGCTGGGAATGATGAAGAAGAACA
ATTCCGCCAAGCGGGGACCTCAGGATGGAACCAGCAGCCTGCACCGCCCGAGAAGGTGGGTCCGGTCCGGAAT
TCTGCGGGAAGGGATTTTCAGGGAGATTTGAAAAAACCGCTATGTGGTGCTGAAAGGGGACCAGCTCTACATCT
CTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTTGACCTGAGTGACTATGAGAAGTGTGAAGAGC
TCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCAAGTTTACTCTTGCCCACTCCAAACAGCCCGTAACA
CGGCACCCAACCTGATCTTCTGCGCAGTGAGTCCAGAAGAGAAGGAATCGTGATCAATGCCCTCAACTCTGCCA
TCACCCGAGCCAAGAACCGTATCTTGATGAGGTACCGTTGAGGAGGACAGCTATCTTGCCCATCCCACTCGAG
ACAGGGCAAAAAATCCAGCACTCCCGCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCT
CGGATGGGATGCTGACCTTGACTTGATCCAAGAGGAAGACCCTTCCCTGAGGAACCAACCTCTTGCTGCTGAGA
GCTTTTCGGGTGACCTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGGCGGAGAGCGGACTCAGACCGCATCC
AGCCCTCCGCAGACCGGGCAAGCAGTCTCTCCCGACCTTGGGAAAAAACAGACAAAGGGGCCACCTACACCCCCC
AGGCACCCAAGAAGTTGACGCCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCCTATCTCAGCGGGATG
CTGCCTCTGCCCCGACCCCTCCAGCTGCGGGCTGAGGAACCCCCAACCCCTGCCCTCCCCAACCCGGGGCAGCTGT
CCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTTAGGGACTGGGAG
ATGGGAAGCGAAAGGCCAAGGACCCCCCTCGGTCTCCGCCGATTCTGAGTCAGAGCAGCTGCTGCTGGAGACGG
AACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAGAGGGTGCTGCAGGAGGTCAGGGAGCTGAGAG
ACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCACCTCAGACAGACCACCCCGCACAGTCAGTACCGGA
AGAGCCTGATGTAGAGGGCAGGGTGGGGTCTGGAACCTGTGCGGTTGGACAGACTCTTATCTCCGTGTTGCTGGAT
AAAGCTTTTTTTATTACCTCAATCAAAAAAGAAAACAAAAATGAAAAAAAAAAAAA

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FIGURE 1206

MMKKNNsAKRGPDGnQQPAPPEKVGWVRKFCGKGIFREIWKNRYVVLKGDQLYISEKEVKDEKNIQEVFDLSY
EKCEELRKSRSKKNHskFTLAHskQPGNTAPNLIFLAVSPEEKESWINALNSAITRAKNRILDEVTVEEDSYL
AHPTRDRAKIqHSRRPpTRGHLMaVASTSTSDGMLTLDLIQEEDPSPEEPTSCAESFRVDLDKsVAQLAGSRRRA
DSDRIQPSADrASSLSRPWEKTDKGATyTPQAPKKLTpTEKGRCASLEEILSQrDAASARTLQLRAEEPpTPALP
NPGQLSRIQDLVARKLEETQELLAeVQGLGDGKRKAkdPPRSPPDSESEQLLLETERLLGEASSNWSQAKRVLQE
VRELrdLYRQMDLQTPDShLRQTpHsQYRKSLM

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FIGURE 1207

CCCCGCTGCATACGGTTGCCGGCATGGCACATTACAACCTTCAAGAAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTTCATAAACATTACCAAATACATCGCA
TTAGACATTTTACATGAGAAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG
ATTTCCCCAAATTGGATGATATTCAATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTCAACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTTGCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAAATTTTACAGATTGTCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCCCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAAATGAAGGGAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCTTTTATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAAATCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCATTACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAGACTCTGCTCCCCCGTCTCTGTGGCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAGTATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCTGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTTGCTTTGCTGAAAACTATGGTTAACCTATATAGGTGTGGGAAATTTTGT
CACTGCATAATATTACAAATATTTTGGAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAAGTGGGAAGATTTACTGGTGAACCTGGGTTGTTTTTGTATGGAGAAAAACCTATTTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTCGAATCCCGTGCTTAAATACGCTCTTAAATTATTTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAATAAACCTCCAGAAGAACTAAAAA
AAAAA

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FIGURE 1208

MAHYNFKKITVVP
SAKDFIDLTL
SKTQRKTPTV
IHKHYQIHRIR
HFYMRKVKFT
QQNYHDRLS
QILTD
FPKLDDI
HFFYADLMN
ILYDKDHYKL
ALGQINIAK
NLVDNVAKD
YVRLMKYGD
SLYRCKQLK
RAALGRMCT
VIKQKQSLEY
LEQVRQHLS
RSLPTIDPN
TRTL LCGYP
NVGKSSFINK
VTRADVDPY
AFTTKSLFV
GHMDYKYL
RWQVVDTPGI
LDHPLEDRN
TIEMQAITA
LAHLRAAVL
YVMDLSEQC
GHGLREQLE
LFQNI
RPLFINKPLI
VVANKCDVK
RIAELS
EDDQKIFTD
LQSEGFPVI
ETSTLTEEG
VIKVKTEAC
DRLLAHRVET
KMKGNKVNE
VLNRLHLAI
PTRRDDKER
PP
FIPEGVVAR
RRMETEESR
KKRERDLE
LEMGGDYIL
DLQKYWDL
MNLSEKHDK
IPEI
WEGHNIADY
IDPAIMKKL
EELEKEEEL
RTAAGEYDS
VSESEDEEM
LEIRQLAKQ
IREKKLKI
LESKEKNTQ
GPRMPRTAK
KVQRTVLEK
EMR
SLGVMDDDK
DDAHYAVQA
RRSRITRKR
KREDSAPPSS
VARSGSCSR
TPRDVSGLR
DVKMVKKAK
TMKNAQKKMN
RLGKKGEADR
HVFDMPKHLL
SGKRKAGKK
DRR

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FIGURE 1209

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCTATCAGATTGGAT
ATGTCCCTTCATATTTGATTGGATTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTTGAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAACTTGATTCTACTAATGACAGATGAAACCATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTTAACAC
AAACTCACATTGGTTCAGGTCTCAACGTTTCCAGGCTTACTCAGAGATTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTCTGGTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTTGAATGAGA
ATTGAAAACCTGATTCAAGTAAGTTTGTAGTATCACAATGTTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCACCCAGCGCCATTTGTAAAGAGCAACTTTCCAGCAGTACATTTGAAGCACTTTTTA
ACAACATGAAACIATAAACCATATTTAAAAGCTCATCATGTTAAATTTTTATGTACTTTTCTGGAAGTACTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAA
AAAAA

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FIGURE 1210

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

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FIGURE 1211

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTTCGTTGTCGCCCCCTCCTCGTGGGAAGAATCGTTTGGT
CTCCTGCCGTGCCCCGGCCGGTGCTGCTGTGCTGCTGCTGCCCCGCGGGTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCCAGTCAGAAGTCCAGCCTGCCAC
TGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCTCATCCGTAAGTGTGAAGTGAAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTCTCTCATCTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGTACCTTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTCAGTTCTATCCTTGGATTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGGCCGGGCACTGCTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTGTACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAGTCGACTGATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGGAGGGCGCAAGTTGGTGATCCTAATTCTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTGCTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACAGTTGAATGACAATGAATATACCAAGTTTATTCTCTCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACTTACCACCGATTAAGGCCACAGGATAAGTTCTGGTGTGGCTACTGATGGGTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAACTGGCATGCATACCAACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCCT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTCGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTG
ATCATGAGCGCCTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAACCAAGAAAAGTGAAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAAACATTTTCAGGTGGCATTCTAA
GCATTTACCCCTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACCTGAGGCAAGCACTTCTTTATCACAGGTGTCTTGAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTCTAGTACACAGTCTATGCATTATTATATACATTTATTTTAGCCTAAAGT
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCCGATTTCTAATGTAATTGAAACATTTTCTA
GTTTGCCACACACTTGGAGACCGTAAGGGTTTTAGTTTGATCTACTCTTCTATTGAAGTTAAAAA
AAAAA

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FIGURE 1212

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTPPQVNSILKANEYSFKVPEFDGKMSVLSLDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHACCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNLSRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNSFLNYLV
LRVAFSGATACVAHVVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTSLNDHNAQNERELERLKLEHPKSEAKSVVK
QDRLLGLLMPFRAFQDVFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAPEVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQOPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

FIGURE 1213

CCATGAGGACTCAGCCGGGCTAGAGCAGTCTCTACGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGGCCG
CGGAACAGCTCCAGATCGTTTCTCGGGCCCCCGCCGCTTTGCGGGCTCTCTGCGACCTGCTAGCCTCGGGCGCCG
ACCCCCAGATCCGCCAGTTTTCGGGCCGTGCTGACCCGACAGCACTGAACACCCGCTGGCGACGGCTGGCGGCGG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCAGCTCTCAGCCACCATTTTTCGAAAGGAAGGCTTGAGGGCTGGCCACAGCTTTTGACAGCTGCTTCAGC
ACAGTACCCACAGCCCCACAGCCACAGAGAGAGATGGGGCTTTTGTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCCTTCCAACCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCC
TTGAGGCTTTGGATGAACTGTTGGAGTCAGAGGTGCCGTCATACCCCCCTACCTCTCTGAAGTCTTCACATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTG
TCAAAGTCAAGAGCAAGGCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCCTTTTCCCATTTGTGG
CTGCTGAGCCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCACTGCTGCAGATTGTGT
GCAAGGGCTTGAGGAGCCCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGC
CCTACCTTTCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCCTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCACGAGCAGTGGGGGAGCCCATGAGGCCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGCGGCGCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAACAGATCACCACGCTCATGCTGCTGTCTACGTGCGTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCTTCTGTTTGACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCTTCCATACATGGAAAGTGTCTTTG
AAGAAGTATTTAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTCAGTTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCCCTCGGAACCCAAACACTGCTGCTTTGCAGGCTGCCCTGGCC
GAGTCGTGCCATCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCCTCACACTGAAGCCCCCTGGGCGCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCACGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCATTTCTTTGCCGGTTTTCTTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCTTTGCAGTGGGGACCTTGGCAGAGACTATTAGGGCCTGGGTGCTGCCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCCAAGAGGCAGACCCCGAGGTGCGAAGCAATGCCATCTTCGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCCTGCCCAGGAACACTTCCCAAGCTGCTGGGGCTCCTTTTTCCCTCTCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCCTGTTGATGGCCAGTCCCACCA
GGAAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCTGTACACAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCCACCAGACACCAAGGCCGCACTGTTGTGCTCCTGACGT
TCTTGCCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCTTACTGACAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA

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FIGURE 1214

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRLNTRWRRRLAAE
QRESLSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSFEREMGLLLLSVVTSRP
EAFQPHHRELLRLLNETLGEVGSFGLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVKSALLKNRLLPPLLHTLFFIVA
AEPPPGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCQQLMPMLEEARSESPYQRKAGLLV
LAVLSDGAGDHIRQRLLPPLLQIVCKGLEDPQSQVVRNAALFALGQFSENLOPHISSYSREVMPLLLAYLKSVPGLG
HTHHLAKACYALENFVENLGPVKQPYLPPELMCEMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFFAIMEH
LREFLLTGREDLQPVQIQSLETGLVARAVGEPMRPLAECCQLGLGLCDQVDDADLRCTYSLFAALSGLMGE
LAPHLEQITITMLLSLRSTEGIVPQYDGSSSFLFDDDESDEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVP SYM QAVNRERERQVVMVLEALTGVLRSCGTLTKPPGRLAELCGVLKAVLQRKTACQDTDEEEEDDDQA
EYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFPLLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVAPELLRICSLILADNKIPPDTKAALLLLTF
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 1215

GCTCCCTGGGGAACCCAGCAGGCGGCGAAGATGGCGGAGAACAGCGGTGCGGCCGGCAAGAGCAGCGGGAGCGGC
GCGGGGAAGGGGCGGTGTCCGCAGAGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTG
GCATCCAAAGCAGCTGAGTTGGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGAT
GAAACTCGTAAGTGCTACCGCATGGTTGGAGGAGTGCTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCCTTTG
GAGAACAACAAGGAGCAGATACAGAAGATCATTGAGACACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTA
AATGAATTCCGGGAAAAGCACACATTTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAACTCAGAA
GGGGCTGGGGCTAAGGCCAGCTCAGCTGGAGTGTTGGTCTCCTAGGGACCAAGGCCTTTGCATTTTTTTCTACCC
TGACTCCCCTTCTAATTTCTCTTTATTGTTATTATTATTATTTTCTCTGCTATTGTAATATTTTTTTGTTAATT
AAATGTTTTGGTCAGAATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1216

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRGLASKAAELEMELNEHSLVIDTLKEVDETRKCYRMVG
GVLVERTVKEVLPALENNKEQIQKIIETLTQQLQAKGKELNEFREKHNIRLMGEDEKPAAKENSEGAGAKASSAG
VLVS

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FIGURE 1217

GGCTTCCGTAGCGGGAGGGCGAAAGATGGCGGCGGCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCT
GAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTC
TCGAAAATGGGAGAAGAAGAATAAAATTGTTTATCCTCCACAACCTGCCTGGAGAACCCTCGGAGACCAGCAGAAAT
CTACCACTGTCTGAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTC
TATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTCTTAGA
AGCACAAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCAGG
ACGAGGCCAGTGCCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCA
TTATTTTGTGAAGTTGGTGGAAGGGCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGA
GTATATTCAGCAGCTTCGCAGCCGGACCATCGTTCACACTCTATGATGAGGAGATTGAGTCCACAGTGTATAT
ATTTTGCCATTATTTTCTAAAAATAAACAAAAATTGAAGGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1218

MAAAVLGQLGALWIIHNLRSRGKLALGVLPQSYIHTSASLDISRKWEKKNKIVYPPQLPGEPRRPAETIYHCRRQIK
YSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRI
RYHGRGRFGIMEKVYCHYFVKLVEGPPPPPEPPKTAVAHAKYIQQLSRTIVHTL

[illegible]

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FIGURE 1220

MAEGENEVRWDGLCSRSTTRETALENIRQTIILRKTEYLRSVKETPHRPSDGLSNTESDGLNKLLAHLMLSKR
CPFKDVREKSEFILKSIQELGIRIPRPLGQGSPSRFIPEKEILQVGSEDAQMHALFADSFALGRLDNITLVMVFH
PQYLESFLKTQHYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVGDPKWLNGLENAPQKLQNLGE
LNKVLARHPWLIITKEHIEGLLKAAEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNY
CICDITNGNHSVDMPVNSAENVSVSDSFFVEALMEKMRQLQECRDEEEASQEEMASRFEIEKRESMFVFSSDD
EEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTNTMA
MHKDVDTSMRLRAIWNYYIHCMTGIRYDDYDYEINQLLDRSFKVYIKTVVCTPEKVTKRMYSFWRQFKHSEKVH
VNLLLIEARMQAELLYALRAITRYMT

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FIGURE 1221

ATAGTTGACCAGCTTCTGCAGGGGCTCCTCAGTGAGAGAATGGAGGTGAGGTGAGGGACTCCTGCCTTGCCCTCTG
CCATCACTTCCAGTGATGCCTATTCCCTAAGATTGATCGTGTCTGTGCTGAAGATGTTTCCGGAACAACAGAAAG
AGGAATTTGTAAAGTGTCTGGGTTTCGAGATCCTAGGATTGAGAAGGAGGACTTCTGGCATTCTTACATTGACTATG
AGATATGTATTCTATACTAATAGCATGTGTTTTACAATGAAAACATCCTGTGTACGAAGAAGATATAGAGAATTCTG
TGTGGCTGAGGCAGAGACTCCAAAGTAATGCGTTGCTGGTACAACCTGCCAGAACTTCCATCTAAAAACCTGTTTT
TCAACATGAACAATCGCCAGCACGTGGATCAGCGTCGCCAGGGTCTGGAAAGATTTCCCTCAGAAAAGTCTACAGA
ATGCACTTTTGCTTTCAGATAGCAGCCTTCACCTCTTCTTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGT
GTGTTTCTGGGCAGACTAAGTACTCTGTGGAAGAAGCAATTACAAGTTTGCCTTAATGAATAGACGTTTCCCTG
AAGAAGATGAAGAAGGAAAAAAGAAAAATGATATAGATTATGATTGAGAAAGTTTCATCCTCTGGGCTTGGACACA
GTAGTGATGACATCAGTTTACATGGATGTAAGTAAATACAGCTCCGCAGGAATCCTGAAAAATAATTCTAATGT
TACTATCTTAGGAATAGCAAATTATGTCCAGTCATAGAGAAGAAAGCTTCATAATAATACATTCTTACCTAAAGC
TCACTGTGATGATGTTAGGTATTTAAATTTCTTAAAGATGTTGGGTTGTTTATTAGTGGTATTTTTATGTTGTCTT
ATTTTAGGTAAGCTTCTGTGTAAAGCTAAAAATCCTGTGAATACAATACTATCCTTTACAGGCAGACATTATTGG
TAAACAAGATCTTGCCCTCCAATGAAATGAACTTACATGTTTTAAAAAACCGAGTTGGTTTTATTGAATTTAAAAA
GATAGGTAATACTAGCATTAAAAATCAAGATAGAGCATTCTTCTTGTATCAGTGGGGCAGTGTTACCATAAA
CACGGTGTATATGTTTAAACCCTATGAAGAGTAACAGTGTAGACCAGACTGCCTCTCTCAGATATGTGCCTGA
TATTTTGTGATACCTCCCTGCACTGGCAAAACACTATGCTTTTGGGTGTTAGACTGAAATATTTTAAAGATAT
TTAACCTTTCCAGTATTCTGTTTACGCTTAGATGGAATGTATCTTATGAATAGAGACATATTAAAAATATGTT
TACATCTTAGAAAAACATAGATAGTGCTAGTAATATTACTTATAACTGTAATATATAGATTGAGAAATACATTT
TCATTATCCAAATCAGCTTCAACAAATGTTTTCTGGAGACAAATAATTTGTTTTTATTATCATTGTATAATCAG
GTTAATGATTTATTTTTTGAATAATGTGCAATTTCTTATCACTAGATAACTTTTCAATATCAGTGGTGGTTACTT
ATTACTTAAATCAGAGGAAGGATTTTATAAAGATTAATAAATTTAATTTTACCAATAAATATTCCCATATTTAG
AAAAGGATGTCGACTTGCTAATTTTCAAGAAATAATTATTCATTTTTTAAAAAGCCCTTTTAAAGCATCTACTGAA
GATTGGTATAATTTTCAATAAATGTCTTTTTTTTTTAGTGTCCTCAAGATATCTTAGATAAACTATTTTGAAGTTC
AGATTTTCAATGAGGCAACATTTTCTTGAATAATTACCAAGTTTTCATCCATGTTGAATGGTACAAAATATTTT
TGTAAGAACTAACAGGAAGATATTTTCAATAACTAGGATAACTTGTGCTTTGTTACCCAGCCTAATTGAAGAGT
GGCAGAGGCTACTACAAAAAGCAACCTTTTCAATTTTCACTAAGAGTTTAAAGCTATTGTATTATTTAAAAAGTCT
TTACAATGCTTGTTCAAAGAACCAACAGAAAAAAGCTAAGAAACTGAGAACTAACATTAAAAAATTAAT
TTAGAATAAGAATGATTTCTTAAATTTGTCTTTTTTTCTTTGGTCTAAAACATTATTAAATTTTGTAAATATT
TTGATTTAATGTGCTTAGATCCTCATTATTTTAAATACAGGAAAAAGAAAGATTAGTAATTTCTTACCATGCTA
ATATGTAAAGTTCATGCCATCCAGGCATTTAAGAGCGATCCTCATCCCTTCAGCAATATGTATTTGAGTTCACAC
TATTTCTGTTTTACAGCAGTTTTGAAAAACATACTATGCCACCAATTGTCATATTATTTTATAGATGATGTAAC
ATAGCCATCAAAATTAATATTATGTAATGCCTAATACTTAGTATGTAATGTCACGAGATCATTTTTACATTAA
CGTGA

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FIGURE 1222

MFPEQQKEEFVSVVWRDPRIQKEDFWHSYIDYEICHTNSMCFTMKTSCVRRRYREFVWLRQRLQSNALLVOLPE
LPSKNLFFNMNNRQHVDQRRQGLEDFLRKVLQNALLLSDSSLHLFLQSHLNSIEDIEACVSGQTKYSVEEAIHKFA
LMNRRFP EEDEEGKKENDIDYDSESSSSGLGHSSDDISSHGCKVNTAPQES

[illegible]

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FIGURE 1223B

GGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTGGCGCACGCCTGTAATCTCAGCTACTA
GGGACGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGTGGAGGTTGCGGTGAGCCAAGATTGCGCCACTGCACT
CCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCTCAACAACAAAAAAGTTTCCCATACTGGCCTGCC
CCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTTCATGTTCAATAAGAAACCCAG
CCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTGCTGACATTGAGAATCTCAGAC
CTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTGCTATCTGCGCGCAGGATGGGGG
TGACTGCCCAGACATTCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCAGATGCGGCAGACATACAACAC
CTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAAAACTTAGGATAACTTAGAA
AGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATGCAATGGACCTGATTCTAGTT
TATTCTAATTAAGAAGTGAGGCCGGGTTTGACTTCGTTCTGAATACAATCTTGAGTAACTGGGAAAGTCTGAGT
GAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGTTTCAAGATTAGAAAATGGCATTATTTGATCTGAAATGT
TTGAGAAGACACGAATAAAG

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FIGURE 1224

MGAMGAAEPLHSVLWVKRRRCVSLPARALLRWRSPEPGPSAPGADARSVLVSEIIAVEEEKDDCEKHASSGRW
HKMENPFAFTVHRVKVRHHRWKWARVTFWSADEQLCHLWLQTLRGLLESLTSRPHLLVFINPFGGKGQGKRIY
EKTVAPLFTLASITTEIIITEHANQAKETLYEINTDSYDGIVCVGGDMFSEVLHGVIGRTQQSAGIDPNHPRAV
LVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTLLRYSVSLLGYGFYGDLIKDS
EKKRWMGLVRYDFSGKTFLSHQYYEGTLSFLPAQHTVGSPRDNKPCRAGCFVCRQSKQQLLEEEKKALYGLENA
EEVEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQEDQFDFTFV
EVYRVKKFHFTSKHVEDEDNDSKEQEKQKFGKICKDRPSCICSASRSSWNCDGEVMHSPAIEVRVHCQLVRLFAR
GIEEES

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FIGURE 1225

CCGGCTGTCGGTCTCCGTGTCGCCGCCGCCGCCGCCGCATCGTGGAGCTGGGGCCCCCTTTTGCCTGGGAGTTTTG
TAGTCGCCTAGGGTCAGCGGTGACATCCCAAAGGGCAGGCCCGGCAGCCGCCATGGTGGCCAAAGGATTACCCCTT
CTACCTCAGGTCAGAGAGCGAAGTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAAGACGCTGAGGA
GCCATTAAAGCGCTTCAGTCAAACCCTGCAGCGCTCCATTAGCTTCCGCAGTGAGAGCCGCCCTGACATCCTCGC
CCCCGACCCTGGTCCAGAAATGCCGCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTT
CGATGTGTGCGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGCGCATCTTTGAGCTTTCCCAAGG
AGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGCCCTATCATGACCCCATGCTGAAACTCTCCATAAT
GACAGAACAAGAGTTGAATCAAATTTTTGGAACACTGGACTCTCTAATTCTCTACATGAAGAGCTCCTTAGTCA
GCTTCGAGATGTTAGGAAGCCTGATGGCTCGACTGAACATGTTGGTCCCATCCTCGTGGGCTGGCTCCCTTGCCT
CAGCTCCTATGATAGCTACTGCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAAGCAAGATCACCG
AGTCCAGGATTTCTACAGCGATGTTTAGAATCCCCCTTACGCCGAAACTAGATCTCTGGAATTTCTCGATAT
TCCAAGAAGCCGCTGGTAAAATACCCTCTGCTTCTCCGAGAAATCTTGAGGCACACACCAAATGATAATCCAGA
TCAGCAGCACTTGGAAGAAGCTATAAATATCATTAGGGAAATTGTGGCAGAAATCAACACCAAGACTGGTGAATC
TGAATGCCGCTATTATAAAGAGCGGCTTCTTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCG
AGTCTTGTTGTGTCATGGTGAAGTGAAGAAATCGGGGCGTGAAACTGCATGTTTTCTGTTCCAAGAAGTGCT
TGTGATCACTCGAGCCGTCACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCCCCGTGAAAGA
CCTCCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGA
GAGAATTAAGAACTTCTTCAGAGTCAGTTTCAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGA
CACTTTCAACAAACAGCAGTGCTTAACTGTATTCTGTCAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGC
TGGGGTGCTTGACTCCGAGGGATCGTTCTTAAATCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAACT
TGAGCAGATGGACCAATCGGCAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTCAGCCTCGACTGTGAGCG
CATGGAACAGACAGACTCTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGTCTGACAGAGCATGTGCACTT
CGGGAAGCAGGCCTGCATCTTACCTGTACAGTATTTGCATTCCACAGATGGAACGGTTTGGAAGCACTTTTTTC
ATACTTTTGTGAAAGTATACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAAGTCCAA
TCTGTCTGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTTGTATTTCCCAAGTGTCTGGATGGATGGAGA
GGTACTCAACCAAGTTACTTTTCACTTGTCTGCTGGATTTTAAAAAATAGAAAAAGAACTCTCAAACTACTGTT
TTACATAGATTGTTTGAAGAGTCCTTCTCTGTGCTTCTGTACCACTTTCCAGCTCTTAGATGTGGTAGCTAA
AGGCACGGAATTTAGACGGCCTTGTAATAGGGCATGAGGAACATCTGTGTATTGGGATGGTATTAGAGAGAG
AATCAGGAAAGACCAACTCATGAAGTGAACCTGGTTTGTATCTTACTCAACTAGAAAGCTTGAAACATCCCTGGG
GATTCTGAAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACCTTGCAACTTCATCCAGTGCAAGTTTGATG
CAAGAATGTATTAGGACATAAAATAGAGGCTGACCTTAAAGGGGCCAGGACAGAAGCGGCTGCCAGCTCTGAATC
TTTAACTGAAATGCACATGGCACCAGGAGGTGCTCTCATAGTTGGTTGCTAGCCTAAACATCAGAATAGAACC
CAAAGGGCTTAGGAAGGCCTGCCAGGATAACAAGAGGCCCTGTATTGTTGTTTCATCTGCCTAGGCCTACT
CATTATTTTAGAGAATGAATGAAGCAACAAGGAAGAGAGAATGACTCTATCGATGACACTGTTTATAGAAACA
CAGGAGAGGAAGAAATTTGGAATGAAAAGCACTTCGTCAGAACCTTCTGTGGGAGCCATTGAGAGAAAAGCATGGT
CCAGTGCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTCTGCTCTGCTTTTGGGTCGTCAATTTGCCATCTCTGG
TTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGGCCAATTTTCACTTCTGATTAATTAGAAATCAGC
TAGCCAGATTAGTAACCTCTTTGTCCAGCCTTGATTACAGTGCAGGGTAAAGTGCAGACCTTAAAAACAGCTAA
GTACCTAGAAGAGCTCCCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGT
GGTAATTATTCTAAATTATTGCCAAAAAGTTTTTTTTTAATCTGTCTTTCAAGTTTACAGAAAAGAAAGCAGTAAA
TGCAATTGATGTCATTTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAAGATATATCAATATAAAAA
CAAGGTATATACTTTTATTATTTTTTGAACAAGGATATTGTGATCAATTTTACCCTGTAAAACATATTCTGTA
TTTATAGGTCTTAAACATGATGAATTTTTCTATTACAAGTTTATTTAAACTGCTTTCTCAAGTCGTTATTGAT
ACAGCAAGTGAACCTGCTGCAGACAGAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAAATGAA
TGATTCTTTGTAGGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAGTG
TTGGCCTATGGGAAGGTGGTCAATGAATGTTTTGATGAAATGAATGTTTTGTATAATGGCCTTAACTTTTCTG
GAAGTATTTCAAATAAATTACATTATTAAGTCATCA

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FIGURE 1226

MVAKDYPFYLTVKRANCSLELPPASGPAKDAEEPSNKRVKPLSRVTS LANLIPPVKATPLKRF SQT LQRSISFRS
ESRPDILAPRPWSRNAAPSSTKRRDSKLWSETFDVCVNQMLTSKEIKRQEAIFELSQGEEDLIEDLKLAKKAYHD
PMLKLSIMTEQELNQIFGTLD SLIPLHEELLSQLRDVRKPDGSTEHVGFILVGWLPCLSSYDSYCSNQVAAKALL
DHKKQDHRVQDFLQRCLESPFSRKLDLWNFLDIPRSRLVKYPLLLREILRHTPNNDPDQQHLEEA INIIQGIVAE
INTKTGESECRYYKERLLYLEEGQKDSLIDSSRVLCCHGELKNNRGVKLVFLFQEVLVITRAVTHNEQLCYQLY
RQPIPVKDLLLEDLQDGEVRLGGSLRGAFSNNERIKNFFRVSFKNGSQSQTHSLQANDTFNKQQWLN CIRQAKET
VLCAAGQAGVLDSEGSFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESN
V

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FIGURE 1227

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGAGTCTAATTTTGTAGCTGCCTCTTTGTAGTCTTAAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGGGAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAAGATGTGGCCTGGGTGAAAAAAGATAGTTTGTCTGCTTATTATTGAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAAATGTAGAGAGAAACAAAGTGAAGCCCTACACTGCTGT
AGAGGTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAATAAATTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCCCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTTAATTGTATTTCCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAATAAAGATGGTTCTTTGGTGTCTG
CTGTCCCTAACGTACATACTGGTTGGGTGACATCAGTAAATGGTCTCCTACCCATGAACAGCAGCTGATTTCA
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTACCTACCACTTCCCATGTTGGGGCATGAAAGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTTGAAGTTTATAT
AATGTTTTACCCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATAACATTCTCTATACAACTTGAAATTAACTGAGTTTTACATTTCTCTT

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FIGURE 1228

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEEWILTGSDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKV KALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSAWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTRHIRLWDPRTKDGSLSLSLTSHTGWVTSVKWSPTHEQQ LISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWIDTGLLLSGGADNKLYSYRYSP TTS HVGA

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FIGURE 1229

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCGCTTTCCACCCGACCTCTGCCCAGGCCCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCAGTGCCGCACCACTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCCTGCCCCCTGACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCCTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAAGTGAAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCIGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 1230

MSGGWMAQVGAWRTGALGLALLLLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFCRTSGLCVPLTWRC
RDLCSDGSDEEECRIEPTQKGQCPPPPGLPCPTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 1231

CGGAAGCAGGAAGTGAGTTTGCGAACGGAGCAGCTGCTGCAGGGCCCATGGCGGACACCCAGTACATCCTGCCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCTGGTACGGAGGCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAGGACCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTCCCTGGTCTATGCCGCGGGTGTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTTCTCTGGGAATGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCTCAGTGCCTACAACACCCGGCTCTTCAAAGAGGTGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCCAGGTGACCCGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCATCGTGGAGA
GTTACATCGGGTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCCCTACCCCTGACTTCACCTCCCTGGATGTTCTACCTTCGCTGGCTCCG
GCATCCCTGCCGCGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAAGCTGTGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGCAGCGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGT
ACATCCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTCCGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCCATATGCAGGCCCGGTTTGTGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCCAACACAGGCTCCGATGGGCGCCAGATGCCCGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCTCACCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTACGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCTTGAGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCTGTG
TGTGATTTAGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTGAGCACTTTCCAGCCTGCCAATTGCTTCCCCTCTGTGATCTCATTTCACTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAAACGTTCTACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1232

MADTQYILPNDIGVSSLDCREAFRLSPTERLYAYHLSRAAWYGG LAVLLQTSPEAPYIYALLSRLFRÄQDPDQL
RQHALAEGLTEEEYQAF LVYAGVYSNMGNYSFGDTKFVPNLPKEKLERVILGSEAAQHPPEEVRGLWHTCGEL
MFSLEPRLRHLGLGKEGITTTFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVR LASVLGSEPS
LDSEVTSKLKSYEFRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGM LAQYIESFTQGSIEAHKGRSFRW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLT FAGSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQREKLT FLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLMV RAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGS DGRPD
ARVRLDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLTLRDTVLLRKESRKLIVQP
NTHLEGS DVQLLEYEASAAGLIRSF SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

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FIGURE 1233

CTGATGAAAGTGCTTCCAAACTGAAAATTGGACGTGCCTTTACGATGGTAAGCGTTAACAGCTCCCACTGCTTCT
ATAATGACTCCTTTAAGTACACTTTGTATGGGTGCATGTTTACGATGGTGTGTTGCTTGGGTAGTATCCAATT
GTGTTGCCATATACATTTTTCATCTGCGTCTCAAAGTCCGAAATGAACTACAACCTACATGATTAACCTGGCAA
TGTCAGACTTGCTTTTTGTTTTTACTTTACCCCTTCAGGATTTTTTACTTCACAACACGGAATTGGCCATTTGGAG
ATTTACTTTGTAAGATTTCTGTGATGCTGTTTTATACCAACATGTACGGAAGCATTCTGTTCTTAACCTGTATTA
GTGTAGATCGATTTCTGGCAATTGTCTACCCATTTAAGTCAAAGACTCTAAGAACCAAAGAAATGCAAAGATTG
TTTGCACCTGGCGTGTGGTTAACTGTGATCGGAGGAAGTGCACCCGCCGTTTTTGTTCAGTCTACCCAÇTCTCAGG
GTAACAATGCCTCAGAAGCCTGCTTTGAAAATTTTCCAGAAGCCACATGGAAAAACATATCTCTCAAGGATTGTAA
TTTTCATCGAAATAGTGGGATTTTTTATTCCTCTAATTTTAAATGTAACCTGTTCTAGTATGGTGCTAAAAACTT
TAACCAAACCAGTTACATTAAGTAGAAGCAAAATAAACAAAATAAGGTTTTAAAAATGATTTTTGTACATTTGA
TCATATTCTGTTTTCTGTTTTGTTCCCTTACAATATCAATCTTATTTTATATTCTCTTGAGAACACAAACATTTG
TTAATTGCTCAGTAGTGGCAGCAGTAAGGACAATGTACCCAATCACTCTCTGTATTGCTGTTTCCAACCTGTTGTT
TTGACCCTATAGTTTACTACTTTACATCGGACACAATTGAGAATTCATAAAAAATGAAAACTGGTCTGTACAGGA
GAAGTGACTTCAGATTCTCTGAAGTTTCATGGTGCAGAGAATTTTATTTCAGCATAACCTACAGACCTTAAAAAGTA
AGATATTTGACAATGAATCTGCTGCCTGAAATAAAACCATTAGGACTCACTGGGACAGAACTTTCAAG

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FIGURE 1234

MVSVNSSHCFYND SFKYTLYGCMFSMV FVLGLVSNCAIYIFICVLKVRNETTTYMINLAMSDLLFVFTLPFRIF
YFTRNWPFGDLLCKISVMLFYTNMYGSILFLTCISVDRFLAIVYPFKSKTLRTKRNAKIVCTGVWLTVIGGSAP
AVFVQSTHSQGNNA SEACFENFPEATWKTYLSRIVIFIEIVGFFIPLILNVTCSMVLKTLTKPVTLSRSKINKT
KVLKMIFVHLIIFCFCFVPYNINLILYSLVRTQTFVNCSVVAVRTMYPITLCIAVSNCCFDPIVYYFTSDTIQN
SIKMKNWSVRRSDFRSEVHGAENFIQHNLQTLKSKIFDNESAA

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FIGURE 1235

AGAAGGCCTCGCACAAAACACTGTACAAACCCGAAAGGAAGTCTGAGAGACGAACCGCCTTCCTCCCTGAAGCTT
CTAGAAGTGGAGCAGAAAAGAAGGTGTGGCCAGGGCCAGCCCCGCCTCCTCCCCGGGCGGAAGCTGTGTCAAGTG
CCGGAAGTCGGCGTGAGGTGGGGCTTATGCGGCGGCGTGGTGAAATAGATATGCGGACCGAGGGGGATGTGGAGC
TGGAGTTGGAGACTGAGACCAGTGGACCAGAGCGGCCTCCGGAGAAGCCACGGAAACATGACAGCGGTGCGGCGG
ACTTGGAGCGGGTCACCGACTATGCAGAGGAGAAGGAGATCCAGAGTTCCAATCTGGAGACGGCCATGTCTGTGA
TTGGAGACAGAAGGTCCCGGGAGCAGAAAAGCCAAACAGGAGCGGGAGAAAGAACTGGCAAAAGTCACTATCAAGA
AGGAAGATCTGGAGCTAATAATGACTGAGATGGAGATATCTCGAGCAGCAGCAGAACGCAGTTTGCGGGAACACA
TGGGCAACGTGGTAGAGGCGCTTATTGCCCTAACCAACTGATGCGTGCTTTCTCAAATATACCTACTGGATTAAT
TTATGGCAATAAAATTTTTTTTTTGTCTTTTTTCAGTTTTATCATCTTGGGTCAAGTAGAGTGTATACTATATCCTA
TGTGTGGAGAATTTATATGTTGGAGACTAACTGAATTTAAGTGACCCATTAAAAATCTAGCACACCTGTATGAAA
AATCAGTGTAGAAGAATACCTCATGTGCAGATGCTAGGTGGCAGGCCAGTCTCATTTCATCTGACTAGCTCTCAAC
AGTATTCAAGGTACATCTGGAGTCTCAGCAGAGTTACTGTACTCAAATGGCATGTGTCTCCAAGACAGCTTATGA
ATATCTAAAAGGCCAGCTACCTGCCTAGGAGCCACTATATATATAGATAGATGTAGGTTATGAACCCAGTTCATA
GGCCACCTTGAGTTAGAATTTTGGTACCTACAACATGCTTGATTTTGAGTGATTAAAAAAAATAATTTGGCTGG
GTGCTGTGGCTCACGCCTCTAATCCCAGCACTTTGGGAGGTCGAGGCAGGTAGATCACGAGGTCAGGAATTCAAG
ACCAGCCTGGCCAACATGTGAAACCCCGTCTCCACTGAAAATAGAAAAATTAGCTGGGCATGGTGGTGGGCGCCT
ATAATCCCAGCTATTCTGGAGGCTGAGGCAGGAATCGCTTGAAATTGGAAAGCAGAGGTTGCAGTGAGCTGAGAT
CACACTACTGTACTACTGTACTCCAGCCTGGGGGAAAGAGTGAAACTCCATCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1236

MATEGDVELELETETSGPERPPEKPRKHDSGAADLERVTDYAEKEIQSSNLETAMSVIGDRRSREQKAKQEREK
ELAKVTIKKEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

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FIGURE 1237

ACCTCCGGAAACCGTAGATTCCGGGCGGTCGGAGCCGCCGGGAGCTGTAGTTCTCCCGGGCTCAGAGAAGTAGG
CAGAGAGCGGACCTGGCGGCCGGGCAGCATGCGGGGGCTGGAGCTCTTGTCGGACCAGGGCTACCGGGTGGACGG
GCGGCGCGCCGGGGAGCTGCGCAAGATCCAGGCGCGGATGGGCGTGTTCGCGCAGGCTGACGGCTCGGCCTACAT
TGAGCAGGGCAACACCAAGGCACTGGCTGTGGTCTACGGCCCGCACGAGATCCGGGGCTCCCGGGCTCGAGCCCT
GCCGGACAGGGCCCTAGTGAAGTGTCAATATAGTTCAGCGACCTTCAGCACAGGTGAGCGCAAGCGACGGCCACA
TGGGGACCCTAAGTCCTGTGAGATGGGCCTGCAGCTCCGCCAGACTTTCGAAGCAGCCATCCTCACACAGCTGCA
CCCACGCTCCCAGATTGATATCTATGTGCAGGTGCTACAGGCAGATGGTGGGACCTATGCAGCTTGTGTGAATGC
AGCCACGCTGGCAGTGCTGGATGCCGGGATACCCATGAGAGACTTTGTGTGTGCGTGCTCAGCTGGCTTCGTGGA
CGGCACAGCCCTGGCGGACCTCAGCCATGTGGAGGAAGCAGCTGGTGGCCCCAGCTGGCCCTGGCCCTGCTGCC
AGCCTCAGGACAGATTGCGCTGCTTGAGATGGATGCCCGGCTGCACGAGGACCACCTGGAGCGGGTGTGGAGGC
TGCTGCCCAGGCTGCCCAGATGTGCACACCCTCTTAGATCGAGTGGTCCGGCAGCATGTGCGTGAGGCCTCTAT
CTTGCTGGGGGACTGACCACCCAGCCACCCATGTCCAGAATAAACCTCCTTGCCACACXAAAAAAAAA

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FIGURE 1238

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRGSRARALPDRAVNCO
YSSATFSTGERKRRPHGDRKSCEMGLQLRQTFEAAILTQLHPRSQIDIYVQVLQADGGTYAACVNAATLAVLDAG
IPMRDFVCACSAGFVDGTALADLSHVVEEAAGGPQLALALLPASGQIALLEMDARLHEDHLERVLEAAAQAARDVH
TLIDRVVRQHVREASILLGD

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FIGURE 1239

TCGCTTTGTGATTCTTGATCCGGAACCTTTGTCACCCAGGAACCCCGGAAGAGGTAGCTCACGCGATAGAAACGTG
TTCGCTTGCCCAGAAGAAGGGAAGGCGCGAGTGAGGAAAGGAGGTACTGTAGATGCCCTCCAAATCCTTGGTTAT
GGAATATTTGGCTCATCCCAGTACACTCGGCTTGGCTGTTGGAGTTGCTTGTGGCATGTGCCTGGGCTGGAGCCT
TCGAGTATGCTTTGGGATGCTCCCCAAAAGCAAGACGAGCAAGACACACAGATACTGAAAGTGAAGCAAGCAT
CTTGGGAGACAGCGGGGAGTACAAGATGATTCTTGTGGTTTCGAAATGACTTAAAGATGGGAAAAGGAAAGTGGC
TGCCAGTGCTCTCATGCTGCTGTTTCAGCCTACAAGCAGATTCAAAGAAGAAATCCTGAAATGCTCAAACAATG
GGAATACTGTGGCCAGCCCAAGGTGGTGGTCAAAGCTCCTGATGAAGAAACCCTGATTGCATTATTGGCCCATGC
AAAAATGCTGGGACTGACTGTAAGTTTAATTCAAGATGCTGGACGTACTCAGATTGCACCAGGCTCTCAAACGT
CCTAGGGATTGGGCCAGGACCAGCAGACCTAATTGACAAAGTCACTGGTCACCTAAACTTTACTAGGTGGACTT
TGATATGACAACAACCCCTCCATCACAAGTGTTTGAAGCCTGTCAGATTCTAACAACAAAAGCTGAATTTCTTCA
CCCAACTTAAATGTTCTTGAGATGAAAATAAACCTATTCCCATGTTCTAAAAAA

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FIGURE 1240

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMLPKSKTSKTHDTESEASILGDSGEYKMILVVRNDL
KMGKGKVAAQC SHAAVSAYKQIQRNPEMLKQWEYCGQPKVVVKAPDEETLIALLAHAKMLGLTVSLIQDAGRTO
IAPGSQTVLGIGPGPADLIDKVTGHLKLY

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FIGURE 1241

GGCACGAGGCCAGGCGACTCCGGGACAGGGGTCTCGGCCGTCGGCGTCAATGGTTTCGCGCGTGCAGCTCCCGCC
TGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAGGAAGCTCCGGAA
ATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGTGTGGAAAGGACT
GTTTTATTGCATGTGGATGCAGGACAAGCCACTCTCCAGGAAGAATTAGGAAGGACTATTTCCCAGCTCGTTCA
TGCTTTTTCAGACCACGGAGGCGCAGCACCTGTTCTTCAGGCCTTCTGGCAGACCATGAATCGCGAGTGGACGGG
CATTGACAGGCTGCGCCTGGATAAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTTGAAGGTTCTGAA
GATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCTGCACCCAGCAG
CCAGGCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGTGGGCGCCGAGGA
GCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATCGCTGCCCGGACCAAGGATTCTTGGT
TTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGAAGACCTCTGAA
TGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGAGCGTGGAGACGC
GCTGTCCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGCTGGTGAGGAGCA
GGCAGGTGACGACAGGACAGTGGCGGGCCCGTTCTCCAGTTTACTACGAGGCAGTTGCTAACAGACTGTTTGA
AATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAAGCTGCAGGACCT
GGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCGTGCAGGCGCTGCTTGAAGGGAGGCGGCAGAA
GAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGAGCCCCGAGCCC
GGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGAGGCTGGTGAGCA
GCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGCTGCCAGAGAAG
GAGGACACCTCGGCCCTGACCAAGTGGCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAAGAAGAAGAACG
CAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCTCGCTTGCACCGCGGACGAGGCTG
ACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAATCTCTGTGCCAGGCGGGAGGGAAGGGCGGCACTGGA
GAGATGGGCCCATTATTAGGGGCCAGCATCCCAGGAAGTGGACCTTTCCCCAGAGCCTCCGCCTGTGGCTGTGAT
GACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAACTCTGCCTGCAGCAGGACTGGCTGCCCTGCTGTGGGG
GGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGAAGTGTGCTTCGGGTGTGCTTACGGACGTGTGGGA
GGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTATGTTTGTGGAAAAATCTTGCAAGACATTTCT
CCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCCTCAATCTGGGGTC
TAGAGTTGTGCAGGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGTGGTGGGAAGACCT
GGCTTCCGCGAGAGCCTTGTTCCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGGTCCGCAGGCTGCG
CACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTTCCCTGCCCCCTCTCCCCCTTACACCTGCTGGAGCCTGTG
AGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCTACCTGCATGGAACAAG
GGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTGGGTTTTGCCCGCA
TCTTCTGTTCCATGGGTGCCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCTTGGAGTGGGCCTG
GGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCTGGACTGCATCCGGTTCCCCAAAGCCCTGC
TGCATTGAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCACTCAGCTGGGCGGC
CGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAGGGGTTAGGGTTCT
TTCCCCAAAGGAACCTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG
GCCGAGGTGGCCAGATCACCTGAGGTGAGGATTTGAGACCAGACTGACCAACATGGAGAAACCCATCTCTACT
AAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
GCTTGAACCTGGGAGGCAGAGGTTGTGGTGAAGTACAGCCATTGCACTCCAGCCTGGGCAACGAGAGGGA
AACTCTGTTTCAAAAAAAAAAAAAAAAAAAAAA

1373/2682
FIGURE 1242

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWKGIFYCMWMQDKPLLQEEL
GRTISQLVHAFQTTEAQHLFLQAFWQTMNREWTGIDRLRLDKFYMLMRMVLNESIKVLKMQGWEEERQIEELLELL
MTEILHFPSSQAPNGVKSHFIEIFLEELTKVGAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQA
PLAIEDLLNELDTQDEEVASDSDESSEGGGERGDALSQKRSEKPPAGSICRAEPEAGEEQAGDDRDSSGGPVLQFDY
EAVANRLFEMASRQSTPSQNRKRLYKVIRKLQDLAGGIFPEDEIPEKACRRLLEGRRQKTKKQKRLRLRQQERG
KGEKEPPSPGMRKRSRRRGVGADPEARAEAGEQPGTAERALLRDQPRGRGQRGARQRRRTPRPLTSARAKAANV
QEPEKKKKRRE

1374/2682
FIGURE 1243

GGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCTTGAGGTGTCGCCGCCCTCCC
TGTCTTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGGGCGCGGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGC CGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCCTGTTTCTCTCCGGCCCCAC
CGCGGATCATGTACCAGGATTATCCCGGGAACCTTTGACACCTCGTCCCGGGGCGAGCAGCGGCTCTCTGCGCAGC
CCGAGTCTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTTGGCACCACCGTGGGCCGAGGAGAGATGAGCAGCTGTCTCTGAAG
AGGAGGAGAAGCGTCGATCCGGCGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTGATGTTGGTGGCTCACGGCCAGTGTCAGATTAGCCCCGAGGAGC
GCCGATCGCCCCAGCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAC
AGGAGCCCCCTGGAAGAGGACAGCCCTCGTCTCGTCGGCGGGGCTGGACAAGGCCAGCGCTCTGTATCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTGGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAACCTCCCCACTC
TGCTGGCTCTGTAAACCCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCTCTCGCTCCTCTCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGCAAGCAAATCCCATTTCTTGAAGCCTTGGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTG
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCCTTCTCTCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTGCCATGACATTTCTCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGAAA

1375/2682
FIGURE 1244

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITMSNP
YPRSHPYSPPLPGLASVPGHMLPRPGVIKTIGTTVGRRRRDEQLSPREEEKRRIRREERNKLAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGVPCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPSESC
SKAHRSSSSGDQSSDSLNSPTLLAL

1376/2682
FIGURE 1245

AATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTTCTTTCCGTTGCTGGCGGAAGAGGCACGTGCGCTG
CTGAATGGAGCTGGTTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTTCGCTGTACACCCGGAGCCCAAGGCTTG
CGGCGACCACGAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGTCAGCAGTAGC
TGTAATAGTCGTTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGA
GCATGGGGCTCTAGTGCATCAGTGGTACAATAACTTGCCTGAAATTCTATGGCAACAGGCATTTAATCAGTGG
AGCGGAAGATGGACTCATCTGTATCTGGGATGCAAAGAAATGGGAATGCCTGAAGTCAATTAAAGCTCACAAAGG
ACAGGTGACCTTCCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTCGGTTGGTACAGATAAACTTTAAGAAC
GTGGAATCTTGTAGAAGGAAGATCAGCATTCTATAAAAAATATAAAACAAAATGCTCACATAGTAGAATGGTCCCC
AAGAGGAGAGCAGTATGTAGTTATCATACAGAATAAAATAGACATCTATCAGCTTGACACTGCATCCATTAGTGG
CACCATCACAAATGAAAAGAGAATTTCTCTGTAAATTTCTTTTCAGAGTCTGTCCTTGCAGTGGCTGGAGATGA
AGAAGTTATAAGGTTTTTTGACTGTGATTCACTAGTGTGCCTCTGCGAATTTAAAGCTCATGAAAACAGGGTAAA
GGACATGTTTCAGTTTTGAAATTCAGAGCATCATGTTATTGTTTCAGCATCGAGTGATGGTTTCATCAAAATGTG
GAAGCTTAAGCAGGATAAGAAAGTTCCCCATCTTTACTCTGTGAAATAAACTAATGCCAGGCTGACGTGTCT
TGGAGTGTGGCTAGACAAAGTGGCAGACATGAAAAGCCTTCCTCCAGCTGCAGAGCCTTCTCCTGTAAGTAAAGA
ACAGTCCAAAATTGGCAAAAAGGAGCCTGGTGACACAGTGCACAAAGAAGAAAAGCGGTCAAAACCTAACACAAA
GAAACGCGGTTTTAACAGGTGACAGTAAGAAAGCAACAAAAGAAAGTGGCCTGATATCAACCAAGAAGAGGAAAAT
GGTAGAAATGTTGGAAAAGAAGAGGAAAAAGAAGAAAATAAAAACAATGCAGTGAATCACAGATGTCTCCTGAAA
GAACTCTTTTAGATGAAATCATTCTACTCAAATGTACCTTAATTTTTTTTTTTTCCCTGAGTAAAAGCAAGAAATT
TCTTCCTTTGGAAAAATATATATATTAATAAAACCCTTTTAGATGGTTTTTTTTTAAAAAATAAATAAATAAATAA
TAAATTTACTTTTGGCAGACAGTGTATGAATTATGTATCATGTTGATATATAATATGTTAATGTGTATGTA
ATTTTACTTTGTACAAAGCAAATAAGATCTTTCTCAAAAAAAAAAAAAAAAAA

1377/2682
FIGURE 1246

MELVAGCYEQVLFQFAVHPEPKACGDHEQWTLVADFTHHAHTASLSAVAVNSRFVVTGSKDETIHIYDMKKKIEH
GALVHHSGTITCLKFYGNRHLISGAEDGLICIWDACKWECLKSIKAHKGQVTFLSIHPSGKLALSVGTDKTLRTW
NLVEGRSAFIKNIKQNAHIVEWSPRGEQYVVIIQNKIDIIYQLDTASISGTITNEKRISSVKFLSESVLAVAGDEE
VIRFFDCDSLVLCEFKAHENRVKDMFSFEIPEHHVIVSASSDGFIMWKLKQDKKVPPSLLCEINTNARLTCLG
VWLDKVADMKSLPPAAEPSVPSKEQSKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKKATKESGLISTKKRKMV
EMLEKKRKKKKIKTMQ

1378/2682
FIGURE 1247

AGCAGGTTTTCGAATGCTCTTTACTTCCTTTGTGGAGCAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAG
ACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTCTTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTG
AAACAGCCTCGAAAAAGGTCAATGGCTTGCAAAACCGCTTTTAAATAAAACCGGGTTCCAAGAAGTGTTGATCCT
CCTCATTATGAACGTTTTCTACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTCCGAAGAATTGGAC
AACTACCAGAGGATGCGGCGCTCCTCCACCGCTCCCGCTGCATCCACGACCACCACTGTGGGTCCGAGGCCTCC
AGCGTCAAAACAAGCAGGACCAACCTCAGTTCCATGGAGCTTCTCTCCGAAATGACTTTGCACAACACAGCCA
ATGAAAACATTTTAATAGCACCTTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAGTGCCTTGAGCAGGCC
CTGGAAGACCGAGTAATGGAGGAGATTCCCTGTGAAATTTATGTACGGGGCGAGAAGATTCTGCACAAGCATCC
ATATCCATTGACTTCTAATCTTCTGCTAATGGTGATGTGAATTTCTAGGGTGTGTACGTACGCAGCCTCCAGGGC
ACCATACTGTTTTCCAGCAGCCAACCTTTTTCTCCCATCACAACCTACGAAGACCTTGATTTACCGTTAACCTATTG
TATGGTGATGTTTTTATTCTCTCAGGCAGTCTATATATGTTAAACCAATCAAGGAACCTACTCTATTAGTGAA
ACAATAATCATCTCTATTGCTTGGTGTCATTATAGGAAGCACTGCCAGTTAAAGAGCATTAGAAGAGGTGGTTG
GATGGAGCCAGGCTCAGGCTGCCTCTTCGTTTTAGCAACAAGAAGACTGCTCTTGACTGATAACAGCTCTGTCAA
TATTTTGATGCCACAATAAACTTGATTTTTCTTTACATTCCCTTTTATTTTTCTTTCTCTAAATTTAATTTGTTT
TATAAGCCTATCGTTTTTACCATTTCATTTTCTTACATAAGTACAAGTGGTTAATGTACCACATACTTCAGTATAG
GCATTTGTTCTTGAGTGTGTCAAAATACAGCTAGTTACTGTGCCAATTAAGACCCAGTTGTATTTACCCATCTG
TTTCTTCTTGGCTAATCTCTGTACTTCTGCCTTTTAAATTACTGGGCCCTTATTCCTTATTTCTGTGAGAAATAA
TAGATGATATGATTTATTACCTTTCAATTATATTTTTCTCAGTTATACTAGAAAATTTCAATACTCTGGGATATA
TGTACCATTGTCAGCTATGACTAAAAATTTGAAAAAGATAAAAATTTCTAGCAAGCCTTTGAAGTTTACCAAGTA
TAGTCACATTTCAGTGACAGCCATTTCATTCCAGTAAAGAATCATTTTCATTCACTTTGGGAGAGGCCTATAATTAC
ATTTATTTGCAATGTTTTCTCTTCGCTAGATTGTTACATAGCTCCCATCTGTGTTTTGCTTACAGCATATGGT
AACCAAGGTTAGATGCCAGTTAAATTCCTTAGAAATTTGGATGAGCCTTGAGATTGCTTCTTAAGTGGGACATGA
CATTTTTCTAGCTCTTATCAAGAATAACAACCTCCACTTTTTTTTAACTGCACTTTTGACTTTTTTTATGGTAT
AAAAACAATAATTTATAAACATAAAAGCTCATTGTGTTTTTTAGACTTTTGATATTATTTGATACTGTACAACT
TTATTAAATCAAGATGAAAGACCTACAGGACAGATTCCCTTTAGTGTTCACATCAGTGGCTTTGTATGCAAAATAT
GCTGTGTTGGACCTGGACGCTATAACTTATTGTAAAGACCTTGAAATGTGGACATAAGCTCTTTCTTTCTTTT
GTTACTGTATTTAGTTTGTGATAAATTTTTCTACTGTGTGATATTTATGCTCTAAATCACTACACAAATCCCATAT
TAAATATACATTGTACCTGACCCTTTAATCATGTTATTTATGCCACCAAGGTTGTGGATCTTAAGGTATGTATG
GAAAGGAACCTATTTATCAAATTGTAAGTAATACAGACATGCCATTTAAAGAGGTAAATCTTGTTTTCTATAT
TTTGTGTAGTAAATCTCAATGAAATAAGTTGAAGTTTCACTGGATTTCACTTAACCTTTTAAATATTACATATATGT
GTTTTCTCAGATTAGTGAAAATTTGTGACCTTAAATTTAATACATATACTGCCTCAG

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FIGURE 1248

MLFTSFVEQKKKAGVFEQITKTHGTIIGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPHYE
LFSLRDKEISADLADLSEELDNYQRMRRSSTASRCIHDHHCQSQASSVKQSRINLSSMELPLRNDFAQPQPMKTF
NSTFKKSSYTFKQGHECPEQALEDRVMEEIPCEIYVRGREDSAQASISIDF

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FIGURE 1249

AAACCCAAAGCGGCCGCGTAGGCGAAGGTGAAGATGGCTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTT
TGCAATTGTCCACTGGACGTTTTAGTCATATTTCAGACACCAGTTGTTTCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCGCTGCTTCCAAGTGTCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCAGTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCTATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTTCACTTGTCTCAGTTATTGGATATGTATCTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACCTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACAAACATTAACTTAGAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAACAGAAATTTAGAATGGTGCATTATTTTAAACAAATG
GTATTGGCTTAACTAGTTGTCTCAGTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAGA
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACCACCT
CACCAACCCCATCTCCCACTCAGAAATCACCTCCCAGCCTCAGGAAGAGTAGAAATTGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCTTTGTAATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCAGCTCCTGCTGCTAGTCTCCAATTGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTTTATACTAGGTCTGGTTGGGTCTAGTCTAGAGTAGGGATTGGCTGTCCTTAAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTTATTGTGTTTATAACACTTGTCAATTTACTGTAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTTGAAAGATAGGTATTTATTTTTCTAGAGACAGGAGTTTGTCTGTTGCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCCTCAGCTTACT
GAGTAAGGATATGTATTTCTTAAAGTTAGTTTATCCACTTCAGATTTTATGTTTTCAATTTGTAAGGATAAACTT
TTCCACAAAATTTTCAACAATCATTGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTTGTTTACTTGAAGTGGGCAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGGAAGCATTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTTGTTAGTAAATTTATGAAATTGAAGTTCTGCAGCATGTCAGGCCAGGATTATTAGGGAGATTCTTCGAAACT
AGTGTGTGTTTATTTAAAGGAGAAAGGATAACAAATAGAATGTTCTAAAACAGAAAGTCCAAGTGCCTGTCTACTT
ATGGGACCAATAAATAAAGAACAGACATTTGATTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCATTTCTTCGCACCTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAATGGTGCCTGCAGAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAATATGGATGACAAGGGTCTCTGTTACAGGGGCCCTCAG
AGCACCTTCGTTTCTCCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAGGGAATTTTCATACATACGATTTTGTGTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1250

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSE
RNLTCGHTSVI
LNRMAPVLPSVLKLPVRS
LTYFSARKGKRKT
VKAVIDRFLRLHCGLWVRRKAGYKKKLWKKTPARKKRLREFVFC
NKTQSKLLDKMTTSFWKRRN

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FIGURE 1251

GGCAACGAGGGGCTGCCTCTGGGGGGTCCGCTAGTCGCGGGGCGGCGGCGGCTGCGGGCGCGAGGTTCCAG
CAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAGAGGGCCCAGCCCCGGGGCAGGATGACC
AAGGCCCGGCTGTTCCGGCTGTGGCTGGTGCTGGGGTCGGTGTTTCATGATCCTGCTGATCATCGTGACTGGGAC
AGCGCAGGCGCGCGCACTTCTACTTGCACACGTCCTTCTTAGGCCGCACACGGGGCCGCCGCTGCCACGCCC
GGGCCGGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTGACGAGTTTCTGGACAAGTTTCTCAGTGCTGGC
GTGAAGCAGAGCGACCTTCCAGAAAGGAGACGGAGCAGCCGCTGCGCCGGGAGCATGGAGGAGAGCGTGAGA
GGCTACGACTGGTCCCCGCGCGACGCCCGCGCAGCCAGACCAGGGCCGGCAGCAGGCGGAGCGGAGGAGCGTG
CTGCGGGGCTTCTGCGCCAACTCCAGCCTGGCCTTCCCCACCAAGGAGCGCGCATTCGACGACATCCCCAACTCG
GAGCTGAGCCACCTGATCGTGAGCAGACCGGCACGGGGCCATCTACTGCTACGTGCCCAAGGTGGCTGCACCAAC
TGAAGCGCGTGATGATCGTGCTGAGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATC
CCGCGGAGCAGCTGCACAACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCCGCTACGGGAAGCTCTCC
CGCCACCTCATGAAGGTCAAGCTCAAGAAGTACACCAAGTTCTCTTCTGTCGCGACCCCTTCGTGCGCCTGATC
TCCGCCCTCCGCGAGCAAGTTCGAGCTGGAGAACGAGGAGTTCTACCGCAAGTTCGCCGTGCCATGCTGCGGCTG
TACGCCAACACACCAGCCTGCCCGCCTCGGCGCGCAGGCGCTTCCGCGCTGGCCTCAAGGTGTCTTCGCCAAC
TTCATCCAGTACCTGCTGGACCCGCACACGGAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGCAGGTGTACCGC
CTCTGCCACCCGTGCCAGATCGACTACGACTTCGTGGGGAAGCTGGAGACTCTGGACGAGGACGCCGCGCAGCTG
CTGCAGCTACTCCAGGTGGACCGGCAGCTCCGCTTCCCCCGAGCTACCGGAACAGGACCGCCAGCAGCTGGGAG
GAGGACTGGTTCGCCAAGATCCCCCTGGCCTGGAGGCAGCAGCTGTATAAACTCTACGAGGCCGACTTTGTCTC
TTCGGCTACCCCAAGCCCGAAAACCTCCTCCGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCCTGGAAC
CTGACGCACGCGCACTCCAGTTTTTTTATGACCTACGATTTTGCAATCTGGGCTTCTTGTTCACTCCACTGCCTC
TATCCATTGAGTACTGTATCGATATTGTTTTTTAAGATTAATATATTTTACGGTATTTAATACGAAATGTGGAAGG
GAATGCTGGAGTAAAAATATCCCTCTCCCTCCGCCCCGCGCCGCCCCGCTCGCCCGCCCGCCCGCTCGC
CCGCTCCTGTGGTTTTTCTGAGCGTGCGGGCTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTA
GGGCCACTCACCGGAGGAGGGCGGGGCTGCACTTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG
ACAAATCCTTCCAGAGGGAAAGTTCTTTGTTTAAAGTGTGTACTTGAAAAGGTCAATCTTCAGGGCTTCCTGTTT
GAAGTCAAGTCAGAGGTAAACCGGTCACTTACAGAAGCAGGATTTCTAGGATTTCTAACTCCAGCTGTTCCCAT
CTGTCTAGTTTTAAATTATGGCTGTTAAGGCCGGGCGGGTGAATCAGGCAGGTAATCCCAGAACTTTGGGAGGCC
AGACAGAAGGATCGCTTGAGGTGAGGAATTTGAGACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1252

MTKARLFRLWLVLGSVFMILLIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDEF LDKFLS
AGVKQSDLP RKETE QPPAPGSMEESVRGYDWSPRDARRSPDQGRQQAERRSVLRGFCANSSLAFPTKERAFDDIP
NSELSHLIVDDRHGAIYCYVPKVACTNWKRMIVLSGSL LHRGAPYRDPLRIPREHVHNASAH LTFNKFWRRYGK
LSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF
ANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLET LDEDAQLLQLLQVDRQLRFPPSYRNRTASS
WEEDWFAKIPLAWRQQLYKLYEADFVLF GYPKPENLLRD

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FIGURE 1253

AGTCCTTGGCGGAGGTGACCAAAGCCACGTAATGTCCTAGTTTCGCTCATCCGTCCATGCCAGATGGATTGTGGGG
AAGGTGATTGGGACAAAAATGCAAAAGACTGCTAAAGTGAGAGTGACCAGGCTTGTTCTGGATCCCTATTTATTA
AAGTATTTTAATAAGCGGAAAACCTACTTTGCTCACGATGCCCTTCAGCAGTGCACAGTTGGGGATATTGTGCTT
CTCAGAGCTTTACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAA
GTCATAGATCCAGTGACAGGAAAGCCCTGTGCTGGAACCTACCTACCTGGAGAGTCCGTTGAGTTCGGAAACCACC
CAGCTAAGCAAAAATCTGGAAGAAGCAATATCTCTTCAGCACAGTGAAGCGGGAGTGGAAGAAGGATCTAAAGG
GAAAAACTGACATGTTTATGTTATGGAAAAAGAAATTTTCTAAGTTTCATCAGAACTGTGTCCAGTTTCTCTG
TGGTGTTTATGAAATAGCTAAAAGCAAAATGAAGTAAAGGGCATACTATGGTTTTTCACAAAAA

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FIGURE 1254

MSVVRSSVHARWIVGKVIQTKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALPVPRAK
HVKHELAEIVFKVGKVIDPVTGKPCAGTTYLESPLSSETTQLSKNLEELNISSAQ

1386/2682
FIGURE 1255

GAGTTTTTCATTTGTGGTGAGATTCTCTCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTGTCCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTAATTGTGATGACTATATGGCAACTC
TTTGCTGTCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTGGCATGAAAAAATCAAATTTTTGATTATTAT
AAATGAATGTTGTCCCTGAAGCTTAGCTAAATGGTGAAGTGGTCTTCCTTGCTTTCATATTATCGAATTTCT
GGCTTATAAAGCTTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAA
AAATAAAAAA

1387/2682
FIGURE 1256

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

1388/2682
FIGURE 1257

ACGAGGATCCGGTGTTCACCCAGGGGGAAAAATGCGGCCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAG
AAGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCCGATGGCACCTACTGTTTCCGTCTG
CACAAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTG
TCGCTGGGGACCTGCTTTGGAAAATTCATAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTT
GCACCTTATGCCAAGTATAAAGTTTGGATAAAGCCTGGTGCAGAGCAGTCCTTCCTGTATGGGAACCATGTGTG
AAATCTGGTCTGGGTCGAATCACTGAAAATACTTCTCAGTACCAGGGCGTGGTGGTGTACTCCATGGCAGACATC
CCTTTGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTGTGGTATTT
CATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAAACGAAGCCATTCCAAGGACAGAC
GGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTGTCAACACT
CTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTATTATATAC
AGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATCAGAGGGCT
TCTTGTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGTGATAACACT
GTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAATAAACCACA
TGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTGGTGTGTGGT
ATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCATTGAGCTTT
AATAAGGTTTCAATTTCTCTGTTTAAAAAGACACAAAACCTGAAAATCAGCTTTGGCCATCTACCTGAGAATTAG
AAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGTGCGCCTGTAATCCCAGCACTTG
GGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAACCCCATCTC
TACTAAAAAAA

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FIGURE 1258

MRPLTEEETRVMFEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKETK
THKFRLHVTALDYLPYAKYKVIKPGAEQSFLYGNHVLKSLGRITENTSQYQGVVYSMADIPLGFGVAAKST
QDCRKVDPMIAIVVFHQADIGEYVRHEETLT

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FIGURE 1259

GGAAGAAAACCTGAAAAAGACCCCAAAGAAGAATATGAAAATGGTAACTGGAGCCGTAGCGTCGGTGCTGGAAGA
CGAGGCCACAGACACTTCTGATAGTGAAGGAAGCTGTGGATCGGAAAAGGACCACCTTTATTCTGATGATGACGC
AATAGAAGCTGACAGTGAGGGTGATGCTGAGCCCTGTGACAAAGAAAATGAAAATGATGGAGAATCAAGTGTGG
GACTAATATGGGCTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCTGAAAGTAAACCTACTATTCT
GGTCAAAAATAAGAAGCTGGAAAAGGAAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAAAACAGCGTGA
TAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGACAAAGAGACAGAGAGAAATCT
TCAGAGAATTGCAACAAGGGGTGTGGTGCAATTATTTAATGCTGTTCAAGAACATCAAAAGAATGTTGATGAAAA
GGTTAAGGAAGCTGGAAGTTCTATGAGAAAGCGTGCTAAGTTGATATCAACTGTTTCCAAGAAAGATTTTCATCAG
TGTTTTGAGAGGGATGGATGGAAGTACAAATGAGACTGCTTCAAGCAGGAAGAAACCAAAAGCCAAACAGACTGA
AGTGAAATCAGAAGAAGGCCAGGTTGGACGATCCTACGTGATGATTTCATGATGGGAGCATCTATGAAAGACTG
GGACAAGGAAAGTGATGGGCCAGATGACAGCAGACCAGAATCTGCAAGTGACTCTGATACATAAGCATCATAGG
AAATACAATTGCAGTCGTTTTATTTTTCTAGAAAAATATGTCATCCTCTGATAGTTGGGAATTATAAGGATAC
CATTTGTAAGAAAGCCAAAAGACTTTTGCCAGATTCATATTTCCCTTTTCATGTACACTTTATATATACTTCA
TTAAAATTATATTTTAAACCCTTGATATAATTTAAGCATTGTTCCCTCAGAACATTTGTAAAAGGATATATTTCTG
CTTGACCAGCGAGATGTGCATTTTGCCAGGATCATATTGGTCATGTCTATTGGTGTATTATTTTCAGTATCACCAA
TGTTTTCAGAAATACAGTACTAATTCATCATTAAACTCTTTGAAGTTAATATTTTTCTGCCTTCTAACTTATAGA
CTCAACTATGTATCTGTAGTTTTTGGGAATGGTTGGTGTTTTTTGCTTTGTGTTGGGAAGTTATTGAGAAAACCT
ATATAATAAAATTTAAATTATAGTTTTTCAAA

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FIGURE 1260

MKMVTGAVASVLEDEATDTSDEGSCGSEKDHFYSDDDAIEADSEGDAEPCDKENENDGESSVGTNMGWADAMAK
VLNKKTPESKPTILVKNKKLEKEKEKLKQERLEKIKQRDKRLEWEMMCrvKPDVVQDKETERNLQRIATRGVVQL
FNAVQKHQKNVDEKVKEAGSSMRKRAKLITVSKKDFISVLRGMDGSTNETASSRKKPKAKQTEVKSEEGPGWTI
LRDDFMMGASMKDWDKESDGPDDSRPESASDSDT

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FIGURE 1261

AAACATGAATTCAAACGGCTCATCTTATTTTCGACCATTTCGGCCCCATCATGAAAGTGAAAAATGAAAAGCTCAAC
ATGGCCAACACGCTTATCAATGTTATCGTGCCTCTAGCAAAAAGGGTGGACAAGTTCGGGCAGTTCATGCAGAAT
TTCAGGCCTGCTGATGAAGTTTTTAGATGTGTGCCTTTAAGCCCTTGATTGTGCGGTGTTGGATCTTAGAAGCTG
TGATGGCTCAGATGCACATATTGGCTGAGGATAACCAGCTAAGTGATTTACCAGCTTGTTTTAAACATAGAAAA
TCCTACTGTCTAATTATAAATCTTGAAAGATCAAGCTGATTTTTATTCTTTTTTTTTTGAGATGGAGTCTTACT
CTGTCACCCAGGCTGGAGTGCAGTGGCACGAACCTCTGCTCACTGCAACCTTCACCTCCCAGGTTACGGGAGATGT
GCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAG
TACTTGAAAACACTTCCAAAGCTGCCAACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGG
GAAAGGCACTTGATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCCTTCTCTTTTTCTGTGATGTGGACATCT
ACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGGATTTTTATCCAGTTCTTT
TCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGATGCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAA
AGAAGGAACTGGATTTTGAGAGACTTTGGATTGGGATGACGTGTGAGTATCGGTCAGACTTCATCAATATAG
GTGGGTTTGATCTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGCAACC
TCATAGTGGTACGGACGCCCTGTGCGAGGACTCTCCACCTCTGGCATGAGAAGCGCTGCATGGCAGAGCTGACCC
CCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCACGCGCCAGCTGGGCATGCTGGTGT
TCAGGCACGAGATAGAGGCTCACCTTCGCAACAGAAACAGAAAGACAAGTAGCAAAAAAAGTGAAGTCCAGAG
AAGGATTGTGGGAGACACTTTTTCTTTCTTTTGCAATTACTGAAAGTGGCTGCAACAGAGAAAGACTTCCATA
AAGGACGACAAAAGAATTGGACTGATGGGTGAGAGATGAGAAAGCCCTCCGATTTCTCTGTGTGGGCTTTTTACA
ACAGAAATCAAAATCTCCGCTTTGCCTGCAAAAGTAACCCAGTTGCACCCCTGTGAAGTGTCTGACAAAGGCAGAA
TGCTTGTGAGATTATAAGCCTAATGGTGTGGAGGTTTTGATGGTGTTTACAATACACTGAGACCTGTTGTTTTGT
GTGCTCATTGAAATATTCATGATTTAAGAGCAGTTTTGTAAAAATTCATTAGCATGAAAGGCAAGCATATTTCT
CCTCATATGAATGAGCCTATCAGCAGGGCTCTAGTTTCAGGAATGCTAAAAATATCAGAAGGCAGGAGAGGAGAT
AGGCTTATTATGATACTAGTGAGTACATTAAGTAAAAATAAATGGACCAGAAAAGAAAAGAAACCATAAAATATCG
TGTCATATTTTCCCCAAGATTAAACCAAAAATAATCTGCTTATCTTTTTGGTTGTCCTTTTAACTGTCTCCGTTTT
TTTTCTTTTATTTAAAAATGCATTTTTTTCCCTTGTGAGTTATAGTCTGCTTATTTAATTACCCTTTGCAAGCC
TTACAAGAGAGCACAAAGTTGGCCTACATTTTTTATTTTTTAAAGAAGATACTTTGAGATGCATTATGAGAACTTT
CAGTTCAAAGCATCAAATTGATGCCATATCCAAGGACATGCCAAATGCTGATTCTGTGAGGCACTGAATGTCAGG
CATTGAGACATAGGGAAGGAATGGTTTGTACTAATACAGACGTACAGATACTTTCTCTGAAGAGTATTTTCGAAG
AGGAGCAACTGAACACTGGAGGAAAAGAAAATGACACTTTCTGCTTTACAGAAAAGGAAAATCATTGAGACTGGT
GATATCGTGATGTACCTAAAAGTCAGAAACCACATTTTCTCCTCAGAAGTAGGGACCGCTTTCTTACCTGTTTAA
ATAAACCAAAGTATACCGTGTGAACCAACAATCTTTTTCAAACAGGGTGCTCCTCCTGGCTTCTGGCTTCCA
TAAGAAGAAATGGAGAAAAATATATATATATATATATATTGTGAAAGATCAATCCATCTGCCAGAATCTAGTG
GGATGGAAGTTTTTGCTACATGTTATCCACCCAGGCCAGGTGGAAGTAACTGAATTATTTTTTAAATTAAGCAG
TTCTACTCGATCACCAGATGCTTCTGAAAATTGCATTTTATTACCATTTCAAATTTTTTAAAAATAAATAC
AGTTAACATAGAGTGGTTTTCTTCATTCATGTGAAAATTATTAGCCAGCACCAGATGCATGAGCTAATTATCTCTT
TGAGTCCTTGCTTCTGTTTGCTCACAGTAAGCTCATTGTTTAAAAGCTTC

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FIGURE 1262

MESYSVTQAGVQWHELCSLQPSPPRFREMCIEQDGRVHLTVVYFGKEEINEVKGVLENTSKAANFRNFTFIQLNG
EFSRGKGLDVGARFWKGSNVLLFFCDVDIYFTSEFLNTCRLNTQPGKKVFYPVLF SQYNPGIYGHHDVPPLEQ
QLVIKKETGFWRDFGFGMTCQYRSDFINIGGFDLDIKGWGGEDVHLYRKYLHSNLIVRTPVRGLFHLWHEKRCM
DELTPEQYKCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSSKKT

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FIGURE 1263

CCGCTGTTATACGTCACCTCCACGGCTCAGCGTCAGGGAGGAGAGAGAATGTCTTTTCGAGGCGGAGGTCGTGGA
GGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGGC
GGTGGAGGCGGCGGCAATTTAGAGGCGGCGGCAGGGGAGGATTTGGACGAGGGGGTGGCCGCGGAGGCTTTAAC
AAAGGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCTGCATCCCTGTGAAGATGACATA
GTTTGTAAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAACAAAGAACAA
ATTGGAAAAGTGGATGAAATATTTGGACAACCTCAGAGATTTTTATTTTTTCAGTTAAGTTGTCAGAAAACATGAAG
GCTTCATCCTTTAAAAAACTACAGAAGTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCT
CGACCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGC
AGAGGTGGTGGCAGAGGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGGCTTCAGAGGAGGAAGAGGT
GGTGGTTTCAGAGGGAGAGGACATTAAGTGAACAGTTGACAGACATCACCAGTTGACTTCTGCATTAACTGCA
TGATCTGTTTCTACTATGGATTGGAACTTGTTCCTTGAACAAGTCTTGAAGATCTTGGTCATTTTATGACAATG
GATCTAAAATGTCAGCATCATGCAAAGTGCAACGGAATAGTGAATTTTGCTCTAAAAGAGCATGAACAAGTCITT
CTAATGTTTTGTACAGTGCCTGGCACTCTGTGGGTGCTCAATAAATGGATAGGAGTTTTTCATTTGAAGCATATTT
GAATTTTTAAAATAAAGTGTTTTATTCCCTTAAAAAAAAAAAAAAAAA

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FIGURE 1264

MSFRGGGRGGFNRRGGGGGFFNRGGSSNHFRGGGGGGGGNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVVLLGE
FLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKKLQKFYIDPYK
LLPLQRFLPRPPGEKGPPRGGGRGGRRGGGGRRGGGRGGGRGGFRGGRRGGGGGRGGRRGGGRGRGH

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FIGURE 1265

ATGCTGCTGAAAGAGTACCGGATCTGCATGCCGCTCACCGTAGACGAGTACAAAATTGGACAGCTGTACATGATC
AGCAAACACAGCCATGAACAGAGTGACCGGGGAGAAGGGGTGGAGGTCTGCCAGAATGAGCCCTTTGAGGACCT
CACCATGGCAATGGGCAGTTCACCGAGAAGCGGGTGTATCTCAACAGCAAAGTGCCTAGTTGGGCTAGAGCTGTT
GTCCCCAAAATATTTTATGTGACAGAGAAGGCTTGGAATATTATCCCTACACAATTACAGAATACACATGTTCC
TTTCTGCCGAAATTCCTCATATAGAAACCAAGTATGAGGACAACAAAGGAAGCAATGACACCATTTTCGAC
AGTGAAGCCAAAGACGTGGAGAGAGAAGTTTGCTTTATTGATATTGCCTGCGATGAAATTCAGAGCGCTACTAC
AAAGAATCCGAGGATCCTAAGCACTTCAAGTCAGAGAAGACAGGACGGGGACAGTTGAGGGAAGGCTGGAGAGAT
AGTCATCAGCCTATCATGTGCTCCTACAAGCTGGTGACTGTGAAGTCTGAGGTCTGGGGGCTTCAGACCAGAGTG
GAACAATTTGTACACAAGGTGGTCCGAGACATTCTGCTGATTGGACATAGACAGGCTTTTGCATGGGTGATGAG
TGGTATGACATGACAATGGATGAAGTCCGAGAATTTGAACGAGCCACTCAGGAAGCCACCAACAAGAAAATCGGC
ATTTTCCCACCTGCAATTTCTATCTCCAGCATCCCCCTGCTGCCTTCTTCCGTCCGCAGTGCGCCTTCTAGTGCT
CCATCCACCCCTCTCTCCACAGACGCACCCGAATTTCTGTCCGTTCCCAAAGATCGGCCCCGAAAAAGTCTGCC
CCAGAACTCTCACACTTCCAGACCCTGAGAAAAAGCCACCCTGAATTTACCGGCATGCACTCTTCAGATAAG
CCATGTCGGCCCAAATCTGAGTAACTTTATATAAATATCTCATGGGGTTTTATATTTTCATTTGTTGTTGTT
TTTTTTTAAGAATCTTCTGATAGAGAAAAAGACTGCTTTGTCACTCAAACATGTTTCCTTCGACCTTTCAGTGTG

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FIGURE 1266

MLLKEYRICMPLTVDEYKIGQLYMISKHSHEQSDRGEGVEVVQNEPFEDPHHGNGQFTEKRVYLSKLPWARAV
VPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHIETKYEDNKGSNdTIFDSEAKDVEREVCFIDACDEIPERY
KESEDPKHFKSEKTGRGQLREGWRDSHQPIMCSYKLVTVKSEVWGLQTRVEQFVHKVVRDILLIGHRQAFWVDE
WYDMTMDEVREFERATQEATNKKIGIFPPAISISSLPLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPRKSA
PETLTLPDPEKKATLNLPGMHSSDKPCRPKSE

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FIGURE 1267

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCGCTGCCGTCCCTGCTGCCTCATGGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAATACATCGCGGAAAGTAAATGTTTGTGCTTATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCCAGAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTAAATGTTTTGCGATTAAATCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAAATATATCGGGTTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTCACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGTGAAGTAGCGAAACATTCTTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGTTTGTCCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTTCCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAAAGACTCTCTTATGATAGAGTGTTCAGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGTGTTTCCATCAGGGACTCCTTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCTGGAAGCATATCTTCAGTGTGCCTTGAACCTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGACAGGTTGTACTCCAGGATTTAGATAAAAAAGAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCTTAGTGTTTTAGAGAAATCAAGAATTTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGTATTAATACTTTTTCAATGAAGTGTATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAA

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FIGURE 1268

MAAIGVHLGCTSAACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVGLGSDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLRIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLSVMEVNSGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLIEGQDFDCNVSRAF
ELLCSPLEFNKLEAIRGLLDQNGFTADDINKVVLCGGSSRIPKLQQLIKDLFPVELLNSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSGTPLPARRQHTLQAPGSISSVCLELYESDGKN
SAKEETKFAQVVLQDLDDKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1269

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATCCCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAAGTTGTCGTAGTTGACA
CACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATCGCTGCATTCTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTACCCGGAAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGAGAACAAAGGAAGGCTGCTACACTAATAGGATGTACCAAGGGCGGAGGAGGATCCAGAAGC
AAACACAAGCAATGCAAGAACTCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAGAACAAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCTTTATTTTGTACGTCTGTTTCGCGGAAGATTAAACTTAATGAAAATCTG
TTTGTATTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGCTCTCAGGCACTCGTAACTAAGGACCACCATTTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTGAATTCTTCCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCCTCCCTTGTAGCTTCCACTCACTTATTTCTGCATTAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGAGAAAGAAAGATCAATTCTTTGTTTGCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCCTAGATGAGTGTCAATTTATTTAATTCCATTGTATATAAGGAGTCAAATTTGTTTC
TTATCATTTGTTTCAATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCAATTAATAATGATCCC
CAAATGCTGAAAAAGTGAAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTAGCTGTATCTGTA
GAAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTATCCACACACTTCTGCCCCACT
GCATTGAATTTTTTGCTTAAGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 1270

MAAQYGSMSFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARSFMI
LIFTRKDDLGDITNLHDYLRAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRRKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 1271

AGTCGCCTGGAAGCGTCCGCCCAAGGTCGCGGGCCGCTTGGGGAGTCAGCAGCGCGCCAGGCCCTTCGGGCCCC
ACACGCATTAGGTGCCTTCTTGATGGGTACGGAGTGAACGCGGGCGGCGGGACCGAGGCAGCGCCAGTTTG
TAACCGCCGCGCGCCCGTGCCTGCGCGCGCCACACCCAGCGCGCTTCCGGCCGGGCCACGTGACCGCGCGTGC
ACGTGTTCCGGCCTCTCCGCTTCGCGCTCCGAACCTCCTCTGGTCGTCCTGGCATTCCGCCAGCGGAGCCGG
CTTGGGCGGGGCCCGGAGGCGGCGCGGAGAGAAGCCGCGGAGACGCGAGCGCCGAGCGTCGCGAGGGAGCAGGC
CCGGGCAGGCAAGCGGCGCCTCCGCCATGAACCCAGGGCCTGTTCCAGGACTTCAACCCAGTAAGTTTCTCA
TCTACACCTGCCTGCTGCTCTTCTCGGTGCTGCTGCCCCCTCCGCTGGACGGCATCATCCAATGGAGCTACTGGG
CCGTCTTGGCCCCATATGGCTGTGGAAGCTTCTAGTCGTGCGAGGCGCCTTCGTGGGCGCGGGCGTTTGGGCCC
GCAACCCTCGCTACCGCACCGAGGAGAGGCCTGTGTGGAGTTCAAAGCCATGCTGATCGCTGTGGGCATCCACC
TGCTGCTGCTCATGTTTGAAGTCTTGGTCTGCGACAGGGTGGAGAGGGGCACCCACTTCTGGCTGCTGGTCTTCA
TGCCTCTCTTCTTCTGTCCTCCCGTGTCCGTGGCTGCCTGCGTCTGGGGCTTTTCGACACGATAGGTGCTGGAGC
TGGAGATCCTGTGCTCGGTCAACATCCTGCAGTTTCTTCTGCGCCCTAAAGCTGGACAGGATTATTCAGTGGC
CGTGGCTGGTGGTGTGTTGTGCCCCCTGTGGATCCTCATGTCGTTTCTTTCCTGGTGGTCTCTTATTACATCGTCT
GGTCCCTCCTGTTCTGCGGTCCCTGGATGTGGTTGCGGAGCAGCGGAGAACACACGTGACCATGGCTATCAGTT
GGATAACGATTGTGCTGCTCTGCTCACTTTTGAGGTCTGCTGGTTACAGATTGGATGGCCACAATACATTCT
CCTACGCTCTCCATATTTGTCCCCCTCTGGCTTTCTTACTAACTTTAATGGCCACAACATTTAGGCGAAAGGGGG
GCAATCATTGGTGGTGTGGCATTTCGAGAGACTTCTGTGAGTTTCTGCTTGAATTTTCCCATTTTAAAGAGAAT
ATGGGAACATTTTCATATGATCTCCATCACGAAGATAGTGAAGATGCTGAAGAAACATCAGTTCCAGAAGCTCCGA
AAATTGCTCCAATATTTGGAAAGAAGGCCAGAGTAGTTATAACCCAGAGCCCTGGGAAATACGTTCCCCCCCCCTC
CCAAGTTAAATATTTGATATGCCAGATTAACTCCTAGAGAGGACCCAGGCACACACAGACTCCACTTGGCCTTCG
CCTCTTGTTCATTATCCCAAACCTGGAAATGGAAACAGGCTTCAAACTCGTCTCACGCCGTGTTTGAGATCA
CCGCCTCATCAGTATGCATCATAGATGGAGATGGTTTCAGTATGTGGGTGTGTGTGATGTGTACCTGGGTAAAG
ACTTGCTTTCCAGGTTTCGCACTTTTCAAGGTGTAGCTGGGGGCAGTAAGTCGAATTGTTTTAGTAGGTCTCAAAG
GAATAACCACACAGCTGTTTGTGTTAAATGCTACTGTACCTATCAAACTATTGTTTAAAAAGTATTTTATACAC
TGCTAATCTAAAATTGTATTTAGATTGTGCCTGTCATAACAATAGCAAATGTAAAAAGTCAAAAAAAAAAAAA
AAAAAAA

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FIGURE 1272

MLIAVGIHLLLLMFEVLVCDRVERGTHFWLLVFMPLFFVSPVSVAACVWGFRHRSLELEILCSVNILQFIFIAL
KLDRIIHWPWL VVFVPLWILMSFLCLVLYYIVWSLLFLRSLDVVAEQRRTHVTMAISWITIVVPLLTFEVLLVH
RLDGHNTFSYVSIFVPLWLSLLTLMATTFRRKGGNHHWFGIRRDQCQLLEIFPFLREYGNISYDLHHEDSEDAE
ETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPKLNIDMPD

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FIGURE 1273

GTGTTTTCTGCGTGAGAGGAAAAGATGCTAGAACCACAGGAGAATGGCGTGATTGACCTACCAGATTATGAGCAT
GTAGAAGATGAACTTTTCTCCTTTCCACCTCCAGCCTCTCCAGAGAGACAAGATGGTGAAGGAACTGAGCCT
GATGAAGAGTCAGGAAATGGAGCACCTGTTCTGTACCTCCAAAGAGAACAGTTAAAAGAAATATACCCAAGCTG
GATGCTCAGAGATTAATTTTCAGAGAGAGGACTTCCAGCCTTAAGGCATGTATTTGATAAGGCAAAATTCAAAGGT
AAAGGTCATGAGGCTGAAGACTTGAAGATGCTAATCAGACACATGGAGCACTGGGCACATAGGCTATTCCCTAAA
CTGCAGTTTGAGGATTTTATTGACAGAGTTGAATACCTGGGAAGTAAAAGGAAGTTCAGACCTGTTTAAACGA
ATTGCACTTGATCTCCCTATTTTACATGAAGATTTTGTAGCAATAATGATGAAGTTGCGGAGAATAATGAACAT
GATGTCACCTTCTACTGAATTAGATCCCTTTCTGACAACTTATCTGAAAGTGAGATGTTTGCTTCTGAGTTAAGT
AGAAGCCTAACAGAAGAGCAACACGAAGAATTGAGAGAAATAAACAACCTGGCCTTGGAAAGAAGGCAGGCAAAG
CTGCTGAGTAATAGTCAGACCCTAGGAAATGATATGTTAATGAATACACCCAGGGCACACACGGTTGAAGAGGTT
AATACTGATGAGGATCAAAAGGAGGAGTCAAATGGATTAAACGAAGACATTCTGGACAATCCATGTAATGATGCT
ATTGCCAATACTTTAAATGAAGAGGAAACACTGCTGGACCAGTCTTTTAAAAATGTGCAACAGCAACTTGATGCT
ACATCCAGAAATATTACTGAAGCTAGATAAGTTTCCATTAAGAGAAAATGTATCTGTTAAGTCATCGTCCTGCAA
GCTTGGCGTTACTATGTATTTTTTCTTCTTGGAGTGAAAATCCTTAGATAGTAAACTGTTATAGATTATTGTTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MLEPQENGVIDLPDYEHVEDETFFPPFPPASPQRDGEGETEEDSGNGAPVPVPPKRTVKRNIPKLDAQRLISE
RGLPALRHVFDKAKFKGKGHEAEDLKMLIRHMEHWAHRLFPKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPIL
HEDFVSNNDEVAENNEHDVISTELDPFLTNLSESEMFASLSRSLTEEQQORRIERNKQALALERRQAKLLSNSQTL
GNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNPCNDIAIANTLNEEETLLDQSFKNVQQQLDATSRNITEA
R

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FIGURE 1275

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCCGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATACCAAGGAGGTCACCTTCTATCCCCAAGATGCTCCTGACCAACCCTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTTGAAGGGGCTGAGCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGCACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTTGAAACTTTATTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCATACTGTTACCCATAAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1276

MKQESAAPNTPPTSQSPTPSAQFFRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLEDHEGCTWGVAYVQVQGEQVSKALKYLVNREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMPCFCPTAQALALV

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FIGURE 1277A

TGAGGGAAGAAGAGGAAGCGGGAGGAGCTTGGCTTCTCGCGTATTGAGGACAGCCCATCTCCCTTCAAGAACC
CTACGGAGAGTCGGACTGCATCTCCGCAGCGAGCTCTTGGAGCGCCGCCGGGGAGGCGAAGGATGAGGCGG
CTCCGCGCGCCGGCTGCGGGGAGCGCTCCTGCTGTGGATTGTTCAGCAGCTGCCTCTGCAGAGCCTGGACGGCTC
CCTCCACGTCCCAAAAATGTGATGAGCCACTTGTCTCTGGACTCCCCATGTGGCTTTCAGCAGCTCCTCCTCCA
TCTCTGGTAGCTATTCTCCCGGTATGCCAAGATAAAACAAGAGAGGAGGTGCTGGGGATGGTCTCCATCAGACA
GCGACCATTATCAATGGCTTCAGGTTGACTTTGGCAATCGGAAGCAGATCAGTGCCATTGCAACCCAAAGGAAGGT
ATAGCAGCTCAGATTGGGTGACCAATACCGGATGCTCTACAGCGACACAGGGAGAACTGGAAACCCATATCATC
AAGATGGGAATATCTGGGCATTTCCCGGAAACATTAACCTCTGACGGTGTGGTCCGGCAGCAATTACAGCATCCGA
TTATTGCCCCGTATGTGCGCATAGTGCCCTGATTGGAATGGAGAAGGTGCGATTGGACTCAGAATTGAAGTTT
ATGGCTGTTCTTACTGGGCTGATGTTATCAACTTTGATGGCCATGTTGTATTACCATATAGATTAGAAACAAGA
AGATGAAAACATGAAAGATGTCAATGCGCTTGAACCTTAAGACGTCTGAAAGTGAAGGAGTAATCCTGCACGGAG
AAGGACAGCAAGGAGATTACATTACCTTGAACCTGAAAAAGCCAAGCTGGTCCCTCAGTTTAACTTAGGAAGCA
ACCAGCTTGGCCCCATATATGGCCACACATCAGTGATGACAGGAAGTTTGTGGATGACCACCACTGGCACTCTG
TGGTCATTGAGCGCCAGGGGCGGAGCATTAACTCCTCTGACAGGAGCATGCAGCACTTCCGTACCAATGGAG
AGTTTGACTACCTGGACTTGGACTATGAGATAACCTTTGGAGGCATCCCTTTCTCTGGCAAGCCAGCTCCAGCA
GTAGAAAAGAATTTCAAAGGCTGCATGGAAGCATCAACTACAATGGCGTCAACATTACTGATCTTGCCAGAAGGA
AGAAATTAGAGCCCTCAAATGTGGGAAATTTGAGCTTTTCTGTGTGGAACCCATACGGTGCCTGTCTTTTTCA
ACGCTACAAGTTACCTGGAGGTGCCCGGACGGCTTAACCAGGACCTGTTCTCAGTCAGTTTCCAGTTTAGGACAT
GGAACCCCAATGGTCTCCTGGTCTTCACTACTTTGCGGATAATTTGGGCAATGTGGAGATTGACCTCACTGAAA
GCAAAGTGGGTGTTTCAATCAACATCACACAGACCAAGATGAGCCAAATCGATATTTCTCAGGTTCTGGGTGA
ATGATGGACAGTGGCAGAGGTTTCGCTTCTAGCCAAGGAAAATTTGCTATTCTCACCATCGATGGAGATGAAG
CATCAGCAGTTTGAACCTAATAGTCCCTTCAAGTTAAAAGTGGCGAGAAGTACTTTTTGGAGGTTTTCTGAACC
AGATGAATAACTCAAGTCACTCTGCTCTCAGCCTTCAATCCAAGGATGCATGCAGCTCATTCAAGTGGACGATC
AACTTGTAATTTTATACGAAGTGGCACAAAGGAAGCCGGGAAGTTTCGCAATGTCAGCATTGACATGTGTGCGA
TCATAGACAGATGTGTGCCAATCACTGTGAGCATGGTGGAAAGTGTCTGCAAAACATGGGACAGCTTCAATGCA
CTTGTGATGAGACAGGATACAGTGGGGCCACCTGCCACAACCTCTATCTACGAGCCTTCTGTGAAGCCTACAAAC
ACCTAGGACAGACATCAAATTATTACTGGATAGATCCTGATGGCAGCGGACCTCTGGGGCCTCTGAAAGTTTACT
GCAACATGACAGAGGACAAAGTGTGGACCATAGTGTCTCATGACTTGAGATGCAGACGCCTGTGGTCCGGCTACA
ACCCAGAAAAATACTCAGTGACACAGCTCGTTTACAGCGCCTCCATGGACCAGATAAGTGCCATCACTGACAGTG
CCGAGTACTGCGAGCAGTATGTCTCTATTTCTGCAAGATGTCAAGATTGTTGAACACCCAGATGGAAGCCCTT
ACACTTGGTGGGTTGGCAAAGCCAACGAGAAGCACTACTACTGGGAGGCTCTGGGCCTGGAATCCAGAAATGTG
CCTGCGGCATCGAACGCAACTGCACAGATCCCAAGTACTACTGTAAGTGCAGCGCGGACTACAAGCAATGGAGGA
AGGATGCTGGTTTCTTATACATAAAAGATCACCTGCCAGTGAGCCAAGTGGTGGTGGAGATACTGACCGTCAAG
GCTCAGAAGCCAAATTGAGCGTAGGTCTCTGCGCTGCCAAGGAGACAGGAATTATTGGAATGCCGCTCTTTCC
CAAACCCATCCTCTACCTGCACTTCTCTACTTTCCAAGGGGAACTAGCGCTGACATTTCTTTCTACTTCAAAA
CATTAAACCCCTGGGGAGTGTCTTGAATAATGGGAAAGGAAGATTTCATCAAGCTGGAGCTGAAGTCTGCCA
CAGAAGTGTCTTTTCAATTTGATGTGGGAAATGGGCCAGTAGAGATTGTAGTGAGGTACCAACCCCTCTCAACG
ATGACCAGTGGCACCAGGCTACTGCAGAGAGGAATGTCAAGCAGGCCAGCTACAGGTGGACCGGTACCGCAGC
AGATCCGCAAGGCCCAACAGAAGGCCACACCCGCTGGAGCTCTACAGCCAGTTATTGTGGGTGGTGTGGGG
GCCAGCAGGGCTTCTGGGCTGCATCCGCTCCTTGAGGATGAATGGGGTGACACTTGACCTGGAGGAAAGAGCAA
AGGTACATCTGGGTTTATATCCGATGCTCGGGCCATTGCACCAGCTATGGAACAACTGTGAAAATGGAGGCA
AATGCCTAGAGAGATACCACGGTTACTCCTGCGATTGCTCTAATACTGCATATGATGGAACATTTTGCACAAAG
ATGTTGGTGCATTTTGAAGAAGGGATGTGGCTACGATATAACTTTCAGGCACCAGCAACAAATGCCAGAGACT
CCAGCAGCAGAGTAGACAACGCTCCCGACCAGCAGAACTCCACCCGGACCTGGCACAGGAGGAGATCCGCTTCA
GCTTACGACACCACCAAGGCGCCCTGCATTCTCTCTACATCAGCTCCTTACCACAGACTTCTTGGCAGTCTCTG
TCAAACCCACTGGAAGCTTACAGATTGATACAACCTGGGTGGCACCCGAGAGCCATACAATATTGACGTAGACC
ACAGGAACATGGCCAATGGACAGCCCCACAGTGTCAACATCACCCGCCACGAGAAGACCATCTTTCTCAAGCTCG
ATCATTATCCTTCTGTGAGTTACCATCTGCCAAGTTTATCCGACACCCTTCAATTCTCCCAAGTCGCTCTTTC

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FIGURE 1277B

TGGGAAAAGTTATAGAAACAGGGAAAATTGACCAAGAGATTACAAAATACAACACCCCAGGATTCACTGGTTGCC
TCTCCAGAGTCCAGTTCAACCAGATCGCCCTCTCAAGGCCGCTTGAGGCAGACAAACGCCTCGGCTCACGTCC
ACATCCAGGGCGAGCTGGTGGAGTCCAACATCGGGGCGCTCGCCGCTGACCCTCTCCCCATGTGCTCCGCCACCG
ACCCCTGGCACCTGGATCACCTGGATTGAGCCAGTGCAGGATTTTCCATATAATCCAGGACAAGGCCAAGCTATAA
GAAATGGAGTCAACAGAACTCGGCTATCATTTGGAGGCGTCATTGCTGTGGTGATTTTACCATCCTGTGCACCC
TGGTCTTCCTGATCCGGTACATGTTCCGCCACAAGGGCACCTACCATAACGAAGCAAAGGGGCGGAGTCGG
CAGAGAGCGCGGACGCCCATCATGAACAACGACCCCACTTCACAGAGACCATTGATGAAAGCAAAAAGGAAT
GGCTCATTTGAGGGGTGGCTACTTGGCTATGGGATAGGGAGGAGGAATTACTAGGGAGGAGAGAAAGGGACAAA
AGCACCTGCTTCATACCTTTGAGCACATCCTTAAATATCAGCACAAAGTTGGGGGAGGCAGGCAATGGAATATA
ATGGAATATTCTTGAGACTGATCACAACAAAAAACCCTTTTAATATTCTTTATAGCTGAGTTTCCCTT
CTGTATCAAAACAAAATAACAAAAATGCTTTTAGAGTTTAAAGCAATGGTTGAAATTTGTAGGTACTATCTGT
CTTATTTGTGTGTTTAGAGGTGTTCTAAAGACCCGTGGTAACAGGGCAAGTTTCTACGTTTTTAAGAGCCC
TTAGAACGTGGGTATTTTTTTCTTGAGAAAAGCTAATGCACCTACAGATGGCCCCAACATTCTCTCCTTTTG
CTTCTAGTCAACCTTAATGGGCTGTTACAGAACTAGTTTCGTGTTTATATACTATTTCTTTTGATGTCCTATAAG
TCGGAAAAGAAAGGGGCAAGAGAACCTATTATTTGCCAGTTTAAAGCAGAGCTCAATCTATGCCAGCTCTCTG
GCATCTGGGGTTCCTGACTGATACCAGCAGTTGAAGGAAGAGAGTGCATGGCACCTGGTGTGTAACGACACAATC
AGCACAACCTGGAGAGAGGCATTAAAGAACCAGGAAGGTAGTTTGATTTTTTCATTGAATTCTACAAGCTAATATT
GTTCCACGTATGTAGTCTTAGACCAATAGCTGTAACTATCAGCTGCAATACCATGGTGACCAGCTGTTACAAAAG
ATTTTTTCTGTGTTTATCTGAACATACTGGATTATATATGTATAAGCGCCTCAATGGGGAATTAGAGCCAGAT
GTTATGATTTGTTTGTCTTTTTCTTTTATAGTTATAGCAAAAATATGGATAATTTCTAGTGAATGCATAAATTA
GGTTGCGTTTCTTATTTTGTCTTAAATCTCTGGTAGTTTTTCCACCCCTGTGACACAATCCTAATAGACAGTGTC
CTGTAAATGGACACAACACAATAAAGTCAAGTTATTATTGCTGTTACTCTGGATGATATGGAAAACACTGCCATA
TTTTAAATCAACTACTCCAGTGTTTTTCCATCCAATCACACTGCTGTGATTACAGGATCTTTCTCTAAAACGG
ACACATTTGAACCTCAGGTTTCATCACAACCTGGTACCTGTTGCTTCCAGAGGATGGAGAAGTGTAGTTAATCA
CACCTCTTAGTTTAAATCTGAAATCTTGACCCAGTTATTTAACAATAAATACCTCATTGATTATTTAAAAAGTA
ATACACTTCTGTAAACAAATGGGGACAATGCATCCAAAAATCTTTTAAACAGATTACACAAAATTTATTTCC
AGAAAGGCTACCATTTATCATCATTATATTTCAAGCCTCTTATACCTAATAAGCACTTTCTAAAAGTCTTGAGA
TCCACCATTTCTGAGGAATTCAATATGATCACTTTTTCTTCTTGGCTGGGAGAGGTTAAGAGGCGGTTTCGAA
GGTATAGATGCTATTGTTCTGATGGCCCGCTGAATAAAATGGAAATTTAGTTTGTGTAATTATGCATCTTTT
TTCAAGATTCTCAGTGTGCCTAATTATTGGAGCACATCAGTTTCTGGGTAATGGAAAACATTACCTAGAGTTG
CCAGTGGCACATTACACAGTACAGAGCACATTTCCAAAGGAGACATTGGACCAGTTAATCCCATACAAGTCAAG
GTAACAGAACAAAAGGGAATCCTGATGCCCTTTTACCATTGCTGGTTGAGCTCAGGCACTGTCTAGGACACCTT
AATTTTAAAGGTTTTAATCATTCTCTATAAAATACATTTAAATGGAAAAATCTTAATATCACTAAATATCA
GAACAATGTAACATTTACAAATGACATATTGAAAGCAAAGGCTGTTTTATTTAGCCAAGATGATTACCATTAGGA
GTTACTTTATGTATTGTTGAAAGCAAATTTTAAACATGATGTTTTAGAAGTGTCTGATTTTTAAACCTGGTTT
ACAGGTATTACTTCTGCACCTACCAATAATGCCAGATGGAAATTTATTATTTCTTGCAATTCCTGTATAGCTC
TGTTCTTTATGCATTGTCTCAACACTTTCCCTTTTTTCCCAAATGAGTAGAGAATTAAAGCCACCCAAAACAGC
TTCTGCTACTAAAAATGTTCTCATCCTTTCTCTCCCTCTCCTTTTCTGCCACAAAAGGTGAAAAATGAGATCCA
ATCCTCTCACCAAAATTTCAAACCTAGGACACTGGAATGACTGCAGGGATCAGTGGTTCTCCCATATCACCATCA
ATTAAGACATATAGGACACTGTCTTCTTCAAGAGGGTTACAATGTGGCCATCAGACAGGAAACCAACGGTGGA
TAAAGTATTAAGTAACTAAGTGCCAAATAAATGCTGGAAATCTTGACCTCTCTTGGGATTATGGGTGTAACAAA
AATCCCTACATCTGTTTATGAAGGCCATATTCAGTACATTTTAAATGGTAAATAATCTGTTTATGTGAAGAAAA
GAATTAAGTCTTTCTTCAACTCTCTCCTTGATAGCCTAGCACAGTGCAGCCTCCATAACCATGACATTCCCGC
CCAAGCTCTCAGTGCCTAATCCTGCTTTGTCACTTACATCTCACAAAATCTTGACATCTTACATTCCAATACATT
ATCAAGCAAGCACAAAGTATGCTGGTAGTGCCTCTTTAAATAATATGTATAGACAACAACGACAAAAAATAG
ACTGTTTTTAAAGTTTCAGGGAAAGTTGGTGGCTGATTTAAAGTTGTGCAGGAAACATCTCTGTGTATGAAGCAA
ATGTGCGATGTTTTGAAAAGCTAGGAGATGACTTTGAATGAATGCAAGGTTAGTGAGATCCTAAGCTCTCAAAATA
GCATATTCCTAGAGCTCAAGAAAGCTGGTCCAGGAGGTTGAAAAGCTATTTTGTGTTAAATTTTTCTGGC

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FIGURE 1277C

CCTTCTTAATATTTAAAAATGTATTTCCCTTGTGGCTTTCAACCACCTGCTCAAAAAAGAGACTTGTTACATG
AAAGTTTTTCATTAAAGAGCTGAAAACAAGAATTTAGAGAGCCATTCCCTAGAAAATGTCCTACTGCCCTGCATTG
ACAAACAAGCATCCITTTACTAACAAGAGCAGGAATTCAGAGGCACAAGAAAAGCATTGGCATGAGCCAAAGAGT
CTGTCTTAAIGTTACTTTTTGAAAATCTGCTGAGCGGCCACCATATGCAGGCTGAGAGCTGGGCACAGGCCAAGCC
ATTGGAAGCACTTCAGGAACAAGCACACAGCTGTGGGACTTGAACATGCAAGTGTTTCAGGTTGTGTCAAGAAGCT
TTTCTTTCCTTCTATGATGGAATCTGTTCTTTTCTATCCTACTTTTTCTCTCTTCTCCTCACCACATTATA
CCCTGCTCTTACGCAGTAAACGTTTTAATGGCCCGTTTATGTCTCATGCCTCCAAACAACACTGAATTTGAAACC
CCCCATTTTTTCTTTTCACCACCCTGTTGAGCAATTTTCCCAAAAAAGGGCAGCAATTATTAAATTGAATTCAA
GTTTCTAGATTTTACTAAGTTTTATTTTGTGAGGTTTTTTAAATTTTTTCAGTGAGCGTGGTGACTGCAGAGGTT
AGTGCTGTGAAAAGCTGGGCTAAATATTCTTTCTGTAAAGTCAAACAGGATTCCATCCCCTGTGAAATAACACAA
AATTTCACTCTCTAAAAGCAACAGCATGTAAACTAGAATGAAAGAAGGAAATTATGTACGTATGCCTAATATTCT
TTGTGAATGTCITTCATTTAACTAAAATTATATTAGAAACCAGATTGATAAATAAAAAATTCAAAGTAGTTTTAA
TTATCCT

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FIGURE 1278

MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDPLVSGLPVAFSSSSSISGSYSPGYAKINKRGGAGGWS
PSDSHDYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYHQDGNIAWAFPGNINSDGVVRHEL
QHPIIARYVRIVPLDWNAGEGRIGLRIEYVGCYWADVINFDPGHVLPYRFRNKKMKTLDKDVIALNFKTSESEGI
LHGEGQQGDYITLLELKKAKLVLSNLGSLNQLGPIYGHSTVMTGSLDDHHWSVVIQRGRSINLTLDLRSMQHFR
TNGEFDYLDLDYEITFGGIPFSGKPSSSSRKNFKGCMESINYNGVNITDLARRKKLEPSNVGNLSFSCVEPYTVP
VFFNATSYLEVPGRLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVGHVHINITQTKMSQIDISSG
SGLNDGQWHEVRFLAKENFAILTIDGDEASAVRTNSPLQVKTEGYFFGGFLNQMNSSSHSVLQPSFQGCMLIQ
VDDQLVNLYEVAQRKPGSFANVSIDMCAIIDRCVPHNCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCE
AYKHLGQTSNYYWIDPDGSGPLGFLKVYCNMTEDKVWTIVSHDLQMQTPVVGYNPEKYSVTQLVYSASMDQISAI
TDSAECYEQVVSFYCKMSRLNTPDGSPYTWWVGKANEKHYYWGGSGPGIQKACACGIERNCTDPKYCNCADADYK
QWRKDAGFLSYKDHLVPSQVVVGDTRQGSEAKLSVGPLRCQGDNRNYWNAASFNPSSYLHFSTFQGETSADISF
YFKTLTPWGVFLENMGKEDFIKLELKSATEVSFSFVGNPVEIVRSPTPLNDDQWHRVTAERNVKQASLQVDR
LPQQIRKAPTEGHTRLELYSQLFVGGAGGQQGFLGCIIRSLRMNGVTILDLEERAKVTSGFISGCSGHCTSYGTNCE
NGGKCLERYHGYSCDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPATNARDSSSRVDNAPDQONSHPDLAQEE
IRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLGGTREPYNIDVDHRNMANGQPHSVNITRHEKTIF
LKLDHYPVSYSYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNQIAPLKAALRQTNAS
AHVHIQGELVESNCGASPLTLSPMSSATDPWHLHDLSASADFPYNPGQGQAIRNGVNRNSAIIGGVIAVVIFTI
LCTLVFLIRYMFRRHKGTYHTNEAKGAESAESADAAIMNNDPNFTETIDESKKEWLI

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FIGURE 1279

AAAAACAACCATTTCTCTCTGCTGAGAGCCAGGGAAGGCGAGCTCTGCGCACACGGGCGTCCCTGCAGCAGCC
ACTCTGCTTTCCAGGACCGGCCAACTGCCCTGGAGGCATCCACACAGGGGCCAGGCAGCACAGAGGAGCTGTGA
ACCCGCTCCACACCGGCCACCCTGCCCGGAGCCTGGCACTCACAGCAGGCCGGTGCTAAGGAGTGTGGCGCGGGC
TCGACTCCCACTGCTGCGCGCCTCCCGAGTGACTCTGTTTTCCACTGCTGCAGGCGAGAAGAGGCACGCGCGGCA
CAGGCCGGCCTCCGCTTCCCGGAAGACGGCGCACTCCTGGCCCTGGGTTCTTGCTGCTGCCCACCCTCTGCTCC
CTGGGATGGGCCCCGAGGCGAGCAGCTTCAGCACAGGCCTGGCCCTGCTCCAGGTGCAGGAAGGAGGATAAGGCC
GGGCCGAGAGGCGGCACACCTGGACCATCCCATGGCCCTCCGCCCGCGCCGCCCGAGGATGAGTGGTGTATGTCC
TCTAGCCACCCTAGCAGCGTCGGCTCTCCCTGGACGTGCGGCCGCGGACTGGGACTTGGCTTTCTCCGGATAAG
CGGCGGCACCGGCGTCAGCGATGACCGTGCAGAGACTCGTGGCCGCGGCCGCTGCTGGTGGCCCTGGTCTCACTCA
TCCTCAACAACGTGGCGGCCTTCACTCCAACCTGGGTGTGCCAGACGCTGGAGGATGGGCGCAGGCGCAGCGTGG
GGCTGTGGAGGTCTGCTGGCTGGTGGACAGGACCCGGGGAGGGCCGAGCCCTGGGGCCAGAGCCGGCCAGGTGG
ACGCACATGACTGTGAGGCGCTGGGCTGGGGCTCCGAGGCGAGCCGGCTTCCAGGAGTCCCAGGCACCGTCAAAC
TGCAGTTCGACATGATGCGCGCCTGCAACCTGGTGGCCACGGCCGCGCTCACCGCAGGCCAGCTCACCTTCCTCC
TGGGGCTGGTGGGCTGCCCCCTGCTGTACCCGACGCCCCGTGCTGGGAGGAGGCCATGGCCGCTGCATTCCAAC
TGGCGAGTTTTGTCTGGTTCATCGGGCTCGTGACTTTCTACAGAATTGGCCATACACCAACCTGTCTGGTCTCTG
CTACCTGAACATTGGCGCCTGCCCTTCTGGCCACGCTGGCGGCAGCCATGCTCATCTGGAACATTCTCCACAAGAG
GGAGGACTGCATGGCCCCCGGGTGATTGTATCAGCCGCTCCCTGACAGCGCGCTTTGCGCGTGGGCTGGACAA
TGACTACGTGGAGTCACCATGCTGAGTCGCCCTTCTCAGCGTTCCATCGATGCACACCTGCTATCGTGGAACAGC
CTAGAAACCAAGGGACTCCACCACCAAGTCACTTCCCTGCTCGTGCAGAGGCACGGGATGAGTCTGGGTGACCT
CTGCGCCATGCGTGCGAGACACGTGTGCGTTTACTGTTATGTGGTTCATATGTCTGTACGTGTGCTGGGCCAAC
TCGTTCTGCCTCCAGCTTTCTGTTIAGCGCAACGCGGCTCCACGACCACACGCACTTCAGGGTGGAAGCTGGAA
GCTGAGACACAGGTTAGGTGGCGCGAGGCTGCCCTGCGCTCCGCTTTGCTTTGGGATTAATTTATTCTGCATCTG
CTGAGAGGGGCACCCCAGCCATATCTTACACTTTGGTAAAGCAGAAAACCAGGAAAATTTCTTAAATATCCAC
AATATTCTTTGAGTGAGTCAGAATCTATAGCCGGTTAGTGATGGTTTTAGGCAGAATCGTGTTCGTGTCTGTTTT
GCTCGATTCTTTCTAAGTTAAATAAATGCAAGCCTCTGAACTTCTGTCTATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTTRGGPSPGARAGQVDAHDCEA
LGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLGLVGLPLLSPDAPCWEEAMAAAFQLASFVLV
IGLVTFYRIGHTPTCPGPAT

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FIGURE 1281

GCCCCCGCGCCCCGACCAGCCCGGCTCGGGCAGCCACTCACCGGTGTCCCGTCCGCGTCTTCTCTCCCGG
GTCCCGGCCATGGCGCTGAGTGAACCATCCTGCCGTCTTCTCCACTTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCTGGGCGCGGAGGCCGCCCCGGAGCCGCCGCCGCCGCCCGCCCGCTGCG
TTCTATTACCCGAACCCGGCGCGCCCCGCCCTACAGCGCCCCCGGGGTGGCTGGTGTCTGAGCTGCTGCGA
CCCGAGCTGGATGCGCCGCTGGGGCCCGCACTGCACGGCGCTTTCTGCTGGCGCCGCCCGGCCCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGGGCGGCTACGGCTGCGCCCCCGGGCTGACCCGTGGACCGCGCGCCCTC
AAGCGCGAGGGCGCCCCGGGCGGCTTCGTGCATGCGAGGTCCCGGGGGCGCCCCCGCCGCCGCCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCTGCCCGCGCCCGGTCCGCGCGCTCCTTCCCGCGCCCTTC
GGTGGCCCTGGTTTCGGCGCGCCCCGGGCGGCTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGGGCGCCGCCGCGGCTGGGCTGGCGCCCCCGCCGCCCGGTCTCCTACGCGCGCTGCG
TCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCGCCGCTCTTGCCCCGCAAACGCACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGCGCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTAGCCGGGACGCCCCGCCACCTGCGGCGGGCGGTGGCGGGTCCACGCG
CCGGCGCGGGCCCCCTCCCAAAGTGTGACTGGTATTTATTGGACCCAGAGAACCGGGCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCAGCCCCGCTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAAAGGTGCAATAATTTAAGTGGCATCTTCTCTCCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTGGTTTTTTTTTTAATTAAAAAGTTTGCATCTTTT

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FIGURE 1282

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEEAPEPPPPPPPAFY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRLVKAEPPEADGGGGYGCAPLTRGPRGLKRE
GAPGPAASCMRGPGRPPPPDTPPLSPDGPALPAPGPRASFPPFGGPGFAPGPGGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRHTGK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 1283A

GGTCCCCGGCTGCCCGCAGCCCGCTCGCGGCGCTTCTCCGGCCCGCTCCTTCTCCGCTCGTTAACGTCGCCAAC
CCCCCCCACCCCTCATATCTCTCTCCACCCACCCAACCGCCCCCGCTCCTTCTCGCGCCTCGAGTCGCTTGG
GGGAAAACCTCAAAGAGCCGGATCGCAGGCTCCCTGCCTACTCCCCACCGGGGATTTCAGACTAGACGCTTGAA
GCAAAGCTGCCATCCAGAAGACGACATGCTCTCAGCAACCCCCCTGTATGGGAACGTTACAGCTGGATGAACA
GCGAGAGGGTCCGCATGTGTGGGGCGAGCGAAGACAGGAAAATCCTTGTAATGATGGTGACGCTTCAAAAGCCA
GACTGGAACCTGAGGGAAGAGAAATCCCTTGAACCACAACGTGGTGGATGCGAGCACGGCCCATAGGATCGATGGCC
TGGCAGCACTGAGCATGGACCGCACTGGCCTGATCCGGGAAGGGCTGCGGGTCCCGGGAAACATCGTCTATTCTA
GCTTGTGTGGACTGGGCTCAGAGAAAGGTGCGGAGGCTGCCACAAGCACTCTAGGTGGCCTTGGGTTTTCTTCGG
AAAGAAATCCAGAGATGCAGTTCAAACCGAATACACCCGAGACAGTGGAGGCTTCTGCCGTCTCTGGAACCC
CAAATGGCTTCAGTGCTATATACAAAACACCGCTGGAATACAAAAAGTGCTGTAGCCACAGCAGAAGCGCTGG
GCTTGGACAGGCTGCCAGCGACAAACAGAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TCAATCCTTACATGGAGGGTGCCACGCCAGCCATCTACCTTTCTCGACTCGCCAAATAAGTATTCACTGAACA
TGTACAAGGCCTTGTACCTCAGCAGTCTACAGCTTGGCCAGCCGCTGTATTCTCCAGTCTGCACCAATGGGG
AGCGCTTTCTCTACCTGCGCCACCTCACTACGTCGGTCCCCACATCCCATCGTCTTGGCATACCCATGAGGC
TCTCGACACCTTCGGCCTCCCCAGCCATCCCGCTCTCGTCCATTGCGCAGACAAAAGCCTCCCGTGGAAGATGG
GCGTCAGCCCTGGGAATCCTGTGATTCCACGCTATCCTCACATCCAGAACAGTAAGCAGCCAGGGTTCCTT
CTGCCAAGGCGGTACACAGTGGCCTGCCGGGGACACAGCTCTCTGTGCCCCCTCGCTCGGCGTCACCCC
GAGTCCACCTTCCCACCCAGCCTGTGCAGACACCTACTCGGAGTTCCACAAGCACTATGCCAGGATCTCCACCT
CTCCTTCAGTTGCCCTGTCAAAGCCATACATGACAGTTAGCAGCGAGTTCCCCGCGGCCAGGCTCTCCAATGGCA
AGTATCCCAAGGCTCCGGAAGGGGGCGAAGGTGCCAGCCAGTGCCCGGGCATGCCCGGAAGACAGCGGTTCAAG
ACAGAAAAGACGGCAGCTCACCTCCTGTGTGGAGAAGCAGACCGTTACCAAAGACGTACAGATAAGCCACTAG
ACTTGTCTTCTAAAGTGGTGGATGTAGATGCTTCAAAGCTGACCACATGAAAAGATGGTCCCACGGTCTCTGG
TTCACAGCAGGGCTGGAAGTGGCTTAGTGCTCTCCGGAAGTGAGATTCCGAAAGAAACACTATCTCTCCAGGAA
ATGGTTGTGCTATCTATAGATCTGAAATCATCAGCACTGCTCCCTCATCTGGGTGGTGGCCGGCCAAAGTCTTA
ACGAAGAGAACAATGGCAAAAGCATGTCGCTGAAAACAAGGCATTGGACTGGGCGATACCACAGCAGCGGAGTT
CATCATGCCCGCGCATGGGCGGCACCGATGCTGTCTACTAACGTTTCAGGGTCAGTGTGAGTGCAGGCCGCC
CAGCCTCCGCATACCCGCCCCCAATGCCAATGCAGATGGCACCAAAACCAGCAGGAGCTCTGTAGAAACCACAC
CATCCGTTATTACGACAGTGGGCCAGCCCCCGCCACTCTGCCAAGCACAGTAGCAGCACCAGCAGCAAGGGCG
CCAAAGCCAGCAACCCAGAACCGAGTTTCAAAGCAAACGAGAACGGCCTTCCACCAAGCTCTATATTTCTGTCTC
CAAATGAGGCATTACAGTCCCCACCAATCCCTACCCAGGAGTTACCTCCCTTACCCAGCCCTGAGGGCATTG
CTGTAAGTCCCTCTCCTTACATGGCAAAGGACCTGTCTACCTCACCCAGTTTGTGTTACCCAATGGCAGTCTGT
TTCTGGGCACCTTGCCCCAAAGCCTGGGTGCCCTATGGGCTTCCACCGGCCGTCCAGAGTTTGTGACCTACC
AAGATGCCCTGGGGTTGGGCATGGTGCATCCCATGTTGATACCACACAGCCCATAGAGATTACTAAAGAGGAGA
AACCAGAGAGGAGATCCCGGTCCCATGAGAGAGCCCGTTACGAGGACCCAACCTCCGGAATCGGTTTTCCGAGA
TTTTTGAAACTAGCAGCACCAAGTTACATCCAGATGTCCCCACCGACAAGAACCTAAAGCCGAACCCCAACTGGA
ATCAAGGGAAGACTGTTGTCAAAGCGACAAGCTTGTCTACGTAGACCTTCTCCGAGAAGAACCAGATGCTAAAA
CTGACACAAACGTGTCAAACCCAGCTTTGCAGCAGAGAGTGTGGCCAGAGCGCTGAGCCCCCAAGCCCTCAG
TTGAGCCGGCCCTGCAGCAGCACCCTGATTTTCATCGCCCTGAGAGAGGAGTTGGGGCGCATCAGTGACTTCCAG
AAACTTATACCTTCAAACAGCCAGTCTTACCGTAAGCAAGGACAGTGTCTGGCAGGTACCAACAAAGAGAACC
TAGGGTTGCCAGTCTCGACTCCATTCTGGAGCCACCTCTGGGGAGCGATGGCCCTGCTGTAACTTTTGGTAAAA
CCCAAGAGGATCCCAAACCATTTGTGTGGGCAGTGCCCCACCAAGTGTGGATGTGACCCCCACCTATACCAAAG
ATGGAGCTGATGAGGCTGAATCAAATGATGGCAAAGTTCTGAAACCGAAGCCATCTAAGCTGGCAAAGAGAATCG
CCAACTCAGCGGGTTACGTGGGTGACCGATTCAAATGTGTCACTACCGAACTGTATGCAGATTCCAGTCAGCTCA
GCCGGGAGCAACGGGCATTGCAGATGGAAGGATTACAAGAGGACAGTATTTTATGTCTACCCGCTGCTTACTGTG
AGCGTGCAATGATGCGCTTCTCAGAGTTGGAGATGAAAGAAAGAGAAGGTGGCCACCCAGCAACCAAAGACTCCG
AGATGTGCAAAATCAGCCAGCCGACTGGGAAAGGTTGAAAGGAAATCAGGACAAAAGCCAAAGTCGGTCACCC
TGGAGGAGGCCATTGCAGAACAGAACGAAAGTGAGAGATGCGAGTATAGTGTGGAACAAGCACCGTGATCCCT
TTGAAGCCCCAGAGGACAAAGATCTCTGTGGAGAAGTACTTTGTGGAGAGGCAGCCTGTGAGCGAGCCTCCCG

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FIGURE 1283B

CAGACCAGGTGGCCTCGGACATGCCTCACAGCCCCACCCTCCGGGTGGACAGGAAACGCAAAGTCTCAGGTGACA
GCAGCCCACTGAGACCACTGCGGAGGAGGTGCCAGAGGACCCTCTGCTGAAAGCCAAACGCCGACGAGTCTCTA
AAGGGCTCCATCCTAAAAACAACGCCACTTGCTGCACCTTAGAGAACGATGGGAGCAGCAGGTGTCCGCAGCAG
ATGGCAAACCTGGCCGGCAAAGCAGGAAGGAAGTGACCCAGGCCACTCAGCCTGAGGCCATTCTCAGGGGACTA
ACATCACTGAAGAGAAACCTGGCAGGAAAAGGGCAGAGGCCAAAGGCAACAGAAGCTGGTCGGAAGAGTCTCTTA
AACCCAGTGACAATGAACAAGGCTTGCTGTGTCTCCGGCTCTCCGCCATGAAGAGTCTTTTCATCCACCAGTG
CAGGCGGCAAAAAGCAGGCTCAGCCAAGCTGCGCACCAGCCTCCAGGCCGCTGCCAAACAGCAGAAAAATTAAAG
AAAACCAGAAGACAGATGTGCTGTGTGCAGACGAAGAAGAGGATTGCCAGGCTGCCTCCCTGCTGCAGAAATACA
CCGACAACAGCGAGAAGCCATCCGGGAAGAGACTGTGCAAAACCAACACTTGATCCCTCAGGAGTCCAGGCGGG
GATTGCCACTGACAGGGGAATACTACGTGGAGAATGCCGATGGCAAGGTGACTGTCCGGAGATTAGAAAGCGGC
CGGAGCCCAGTTCGGACTATGATCTGTACCAGCCAAGCAGGAGCCAAAGCCCTTCGACCGCTTGACAGCACTGC
TACCAGCTCCCAGTCCACACAGCTGCCATGTCAAGTTCCCCTCAGGAGACCACCAGCTCTCGCCCTATGCCGC
CGGAAGCAGGAGACTTATTGTCAATAAGAACGCTGGCGAGACCCTTCTGCAGCGGCAGCCAGGCTTGGCTATG
AGGAAGTGTCTCTGTACTGCTTAGAGAACAAGATTGTGTATGTAAATCATCGGGACAACGCAGGTTACTGCGCCC
TGCATGAAGCTTGTGCTAGGGGCTGGCTCAACATTGTGCGACACCTCCTGAATATGGCGCTGATGTCACTGTA
GTGCCCAGGATGGAACCAGGCCCTCTGCACGATGTGTTGAGAACGATCACTTGGAAATGTCCGACTACTTCTCT
CTTATGGTGTGACCCACCTTGGCTACGTACTCAGGTAGAACCATCATGAAAATGACCCACAGTGAACCTATGG
AAAAGTTCTTAAACAGATTATTTAAATGACCTCCAGGGTCGCAATGATGATGACGCCAGTGGCACTTGGGACTTCT
ATGGCAGCTCTGTTTGTGAACCATGATGAAAGTGCTATGATGTTTTAGCCAACCCCCAGGACCAGAAGACC
AGGATGATGATGACGATGCCTATAGCGATGTGTTGAATTTGAATTTTCAGAGACCCCCCTCTTACCGTGTATA
ACATCCAAGTATCTGTGGCTCAGGGGCCACGAAACTGGCTACTGCTTTCGGATGTCCTTAAGAAATTGAAAATGT
CCTCCCGCATATTTGCTGCAATTTTCCAAACGTGGAATTTGTACCATGTCAGAGGCAGAAATTTATCGGCAGG
TTTCTGCAAGTCTCTTGTCTCTTGTCTCCAAAGACCTGGAAGCCTTCAACCCTGAAAGTAAGGAGCTGTTAGATC
TGGTGGAATTCACGAACGAAATTCAGACTCTGCTGGGCTCCTCTGTAGAGTGGCTCCACCCAGTGATCTGGCCT
CAGACAACACTACTGGTGAGCAAGCTGGACCCACCATGTACAGTGTGTTATAGTGTAACTCTTGTGCATATGTGTC
ATAATACAACCTATTTCTGTAAAGAAAGGACACTATTACATATGAAAATATCTCTTCTTATATAAGAGAAATTAC
TCCAGTCAGAAGGACTTAGAAACATGTTTTTTTCCCTTTTAAACTTTTAAGTCAGTTTTATGAAGTTGTTATAAT
GTTTCTTTACTTTTCAATGCACACATGCTTTGGGATACGTTTGTGTTTACTTGGAACATTGTTTCTTTTCTTTT
TTAAGGAGAAAAAAAATGAGTAAAGGAGCTCCACACTTTGACTTAATTTATACAAAGCTCTGATGACAGGCC
ATGACTGTAGAGTGGTCAGAAGTGTGTTGGTTGGTTGAGGGAGCGAATTCGGGAAGGCCTTGGTGATATAACT
TTGTTTTGTTTACAGAGTACCTGCTCGGGCCAGGTAAATGCTATTGGATGTAATCCAGTAGTGTGTAATATAAAT
TCAAACCATATCCACACACAACAATAATTGTATGAACTTTTATATCCTAATTTAAAGCTGTGAAATTAGTTT
TCACGCATCAAACCGGATTGTTTATATGTTTAAACATTTTATGCTCTTATTTAAAGAAGACTTTGAGCTATTTTT
TTCTGTACCCTGTAAATATTGAAAATAACATAATATGTTGAGGTGCTTGGAAATGTACATAAACTAAAATT
TTCTGAATCGTGAAAAA

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FIGURE 1284

MPPEARRLIVSKNAGETLLQRAARLGYE EVVLYCIENKICDVNHRDNAGYCALHEACARGWLNIVRHLLEYGADV
NCSAQDGT RPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMTHSELMERFLTDYLN DLQGRNDD DASGTW
DFYGSSVCEPDDESGYDVLANPPGPEDQDDDDAYS DVFEFEFSETPLLPCYNIQVSVAQG

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FIGURE 1285

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCCGCGCTCCGAGGTCCCGGGCCTCTGTCTCCCGGGCGTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGCCCCGAGCAGTGTTTGGTGTGAAATGTTTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACATTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCACCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCAATTCGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGCAGAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTATGACAAAGAAGAATTTATTTTGTATATGG
AAGAAACCAGTGAAGAGAAACGGCATAAAGATGACAAATGAGCCTATTGTTAGTGTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTAATTTCCAGAGAATGATGTTTGTATAATAAAACAAGCTATGTTTGAAGAACAAAATGTAGT
ATCTACCATTTCGTGTTTTAGAAAGGTATGTGAATAAATATGTTTCATGCTAGTATAAGAGTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTCTA
AGTGATATAAATATTTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTTCCAGATGAGAATCCACAAGCGACTCATTGACTTGCGCAGTCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTCATAAATTGATTACCAGTTGTTAAAAATTTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCCTATGGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1286

MARAVFGVKCFSYSTSLIGLTFLPYIFTQNNaisesvPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVHFQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 1287A

TTGGGAAACCCCTACCTGCTGTACCTGTAGGTCTTTTCTCTGGGGTCTGGAAGAAGAATCCTTCAATATCTTGCC
CTTCTGGTAATCTGAGAGCAGGGCGAGAAAAGGAAGATCAGAGTTCACCCCTTAAATCTGTAGGTTTTCACTCCC
CCTACTCTCCTTTGTCAGTCCCGTGGAGTCTCCATCTGAGCCCTTTCTAGTCCAGGCATCCCCATGTTGGTGGATG
GCCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCTCGGCTCAGCTCTATCCA
TAGATGAAACACGGGCGCATCTGTGTTGAAAGAAAAGATGATGCGGCTCGGGGGGCGGCTGGTGTGAACACCA
AGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAGATGAAGGAGGCCATGAGGACCCTGATAT
TCCCACCCAGCATGCACTTTTTCCAGGCCAAGCATCTCATTGAGAGAAGTCAAGTGTAAATATTCTAAGGATGA
TGCCAAAAGGGGCTGCCTTGCACCTCCATGACATTGGCATCGTGACTATGGACTGGCTGGTGGAGGAATGTCACCT
ACAGGCCTCACTGCCACATCTGTTTACCCCAAGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCCGTC
CATCAGAAAATGTTCAGAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGGTTTGATG
ACAGCTTGCTGAGGAATTTCACTCTGGTGACCCAGCACCCGGAGGTGATTTACACAAACCAAAATGTTGCTGGT
CGAAATTTGAAACCATCTTCTTACCATCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGTCTTCC
GGAGCATGAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGC
TCAGTGGAGAGCACCATGACGAAGAGTGGTCACTGAAGACTTACCAGGAAGTAGCTCAGAAAGTTGTGGAACTC
ACCTTGAGTTTATTGGAATCAAAATCATTATTTCGGATCACAGATCCAAAGATGTGGCTGTATCGCAGAAATCCA
TCCGAATGGCCATGGGGCTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACA
CTGGCCACTCCTTGCGTGACTACAAGGAAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGCTGCCTTACTTCT
TCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACTA
CCAGAAATCGGCCATGGATTGCTTTGAGCAAAACCCCCGAGTCAGGACTTACTCCTGGAAAAAGGACATCCCCA
TAGAAGTCTGTCCCATCTTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACACCCTGTAGCCACTCTGA
TGGCCACTGGGCACCCCATGGTGATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTGTCTATGATT
TCTATGAGGTCTTTCATGGGCATTGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACCTA
TCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCA
TAGCAGATGTGGCTACAAAGTCAAGGAGAAGCTAGCCAGCCCTCTACAAGCTGTCTTCTTGACACGCTGTCACTT
CCTCTCACTCGTTCTTGAATCAGCTCCATGTGCCCATGAAATCAATGGCCTCTGTATGGAGCGACCCTGTGAGAA
GCATTGGCTGGCTGAGCAAATTCATCCTCTGGAAATATTCTCTCAGCCACAGTGACATTGACCCTCTTGGTT
TTCTCCTCTCTCTGGCCATTCTTCCAGTTTCCCTATTTTCAAGTCTTCTCCTCTCTGATCTCTGTGCTGTTT
CCTCAGGACTCAGTCTGGGCTCTCTTCTATTCTGGTCTCTTTATTTTTTTTATTTTTGTATTTTTTCGAGATGGA
GTTTTGCTCTTGTGTTGCCAGGCTGGAGTACAATGGTGGCATCTCAGCTCAGTGAACCTCCGCCACCCGGGTTCA
GGCAATCTCTTGCATCAGCTCCCGAGTAGTTGGAATTATAGGCATGTGCCACCACACCCAGCTGATTTTTGCA
TTTTTAGTAGAGACAGGTTTTTACCATGTTGGCGAGCTGGTATCCAACCTCTGACCTCAGGTGATCCACTCGCCC
CTTGGCTCCCAAAGTGTGGAATTACAGGCGTTAGCCACCATGCTGGCCTATTCTGGTCTCTTTAACTCTCTCC
TCTTTATTTCTCTCTCTCTGTACACTTTTCTGGGTGGTCTCATCCATTCTTGGCTTTTTTCATACCAATTA
TTTGTAAATGATTCCACATTTATTTATGCACTTGGAGAGCTCACAGGAATCTCAGAAACTGATGAGGTACAATT
CTGAACCCTCAGTCTCTTCCCTTTAAACCTTTCTTTTCTCTACTTTAATTTTTCTAAAGAGTGTCTTGCTATGT
TGCCCAGGCTGGTCTCCAACCTCAAGTGATCCTCTGCGCAGTCTCCCGAAGTGTGGGATTACTGACATGAGCC
ACCACACTCAGCCCTTTAAACCTTTCCCTGGCCTTTCCCATAGCTGGTGAAGGACACCTCCATCCATTCCACGCA
GTTGCTCAAAGCAGAAATTTTCAAGTGAAGTCTTGATGCTGCGCGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CTCATCTGGACTCCAGCGGTGGCTCTTGATGCTGCGCGGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CAGACTCCAGCGGTGGTGTCTACCTGCACGCTGTGCCAAGTCCAAGCTACCATACTCTGCTGAGCTATGAC
AACAGCCTCCTCACTGATCTCCCTTTCTTCCCTTTGCCTCCTCCAGCTCATTTTTACAGTGTAGAATGACATT
TTGTTTGTGTTTGTGTTTGTGTTTGTGAGATGGAGTCTCGTTCTGTTGCCCAGGTTGGAGTGCAGCGGTGCGATCTC
GGCTCACTGCAACTTCCACTCCCGGTTCAAGCGGATTCTCGTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGG
CATGCACCACCATGCCCCGATAATTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCT
CGAACACCTGACTTCGTGGTCCACCCGCTTTCGGCTCCCAAAGCACTGGGATTACAGCGGTGAGCCACCCGGCC
TGGCCTAGAATGACTTTTAAAGATCAAATTAATCAGGTCACTCCTTGTCTTACAACGCAGTGCCTTTAGAGGT
ACACCCCATGTCTCCACAGGGCATAACAGCATCCGATTAACTGATCCATTCCGGCGCTTCTCTCCAGTCAC
CCAGAGGGCCCCAACCCCGGCGGCCCTTTCTTCTCAAATGTCTCGGCTCTATACCGTGCCTGGGTCTTTTCTC

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FIGURE 1287B

TTTCTCTCTGCCTGGAACATTCCCTTCCTTTCCCTTTTGTCTTGCCCACTCCTGTTTACCCTTCAAGTTTCAAGTT
CATGTCACCTGTCTCAGAGAGGTTTTCCCTGTGCTCGCCCTGTTTCTCTCAGGAAGCCTTGCTCTTTTCCATCATGC
CTCTAATCACAGCTTATAATCGGATATTTATTTCTGTGTCTACAGTCTTGCCCTGCCAGACTGTAAGCCCCATGT
GGGCAGGCGCTCATGATTGTTTCTGATTGTTTCACGCAIGCTGCTAACCAGAGCCTGGGCCCCAAGCTAGTTAG
TACTCAATAAACAATGCATTGAAAAAAAAAAAAAAAAAXTA

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FIGURE 1288

MLVDGP SERPALCFLLLAVAMSF FGSALSIDETRAHLLLKEKMMRLGGRLVLNTKEELANERLMTLKIAEMKEAM
RTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVRNVITYRPHCHICFTPRGIMQFRFAH
PTPRPSEKCSKWILLEDYRKRVQNVTEFDDSLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVER
DYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQEVAKFVETHPEFIGIKIISDHRSKDVAV
IAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLRDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDAL
MLNTRIGHGFALS KHPAVRTYSWKDIP IEVCPISNQVLKLVSDLRNHPVATLMATGHPMVISDDPAMFGAKG
LSYDFYEVFMGIGGMKADLRTLKQLAMNSIKYSTILLESEKNTFMEIWKKRWDKFIADVATK

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FIGURE 1289

CCAAGCTCCAGCTGTTTGTCAAGGCGAGTGAGGACGGGGAGAGCGTGGGTCACTGCCCCCTCCTGCCAGCGGTCTT
CATGGTCCTGCTCCTCAAGGGCGTACCTTTTACCCTCACCACGGTGGACACGCGCAGGTCCCCGGACGTGCTGAA
GGACTTCGCCCCCGGCTCGCAGCTGCCCATCCTGCTCTATGACAGCGACGCCAAGACAGACACGCTGCAGATCGA
GGACTTTCTGGAGGAGACGCTGGGGCCGCCGACTTCCCCAGCCTGGCGCCTCGTTACAGGGAGTCCAACACCGC
CGGCAACGACGTTTTCCACAAGTTCTCCGCGTTTCATCAAGAACCCGGTGCCCGCGCAGGACGAAGCCCTGTACCA
GCAGCTGCTGCGCGCCCTCGCCAGGCTGGACAGCTACCTGCGCGCGCCCTGGAGCACGAGCTGGCGGGGGAGCC
GCAGCTGCGCGAGTCCCGCCGCCGCTTCCTGGACGGCGACAGGCTCACGCTGGCCGACTGCAGCCTCCTGCCCAA
GCTGCACATCGTCGACACGGTGTGCGCGCACTTCCGCCAGGCGCCCATCCCCGCGGAGCTGCGCGGCGTACGCCG
CTACCTGGACAGCGCGATGCAGGAGAAAAGAGTTCAAATACAGTGTCCGCGACAGCGCCGAGATCCTGGCGGCCTA
CCGCCCCGCGTGCACCCCGCTTAGCGCCCCACCCGCGCTGTGCGCCAATAAAGGCATCTTTGTGGGAAAAA
AA

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FIGURE 1290

MVLLKGVFFLTITVDTRRSEPDVLKDFAPGSQLPILLYDSDAKIDTLQIEDFLEETLGPPDFPSLAPRYRESNTA
GNDVFHKFSAFIKNPVPAQDEALYQOLLRALRLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPK
LHIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKEFKYTCPHSAEILAAYRPAVHPR

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FIGURE 1291

TTGCTGAGTACCCAGAGTTGCGAGGAGTTTTTTAACTGATTTAGCCAGGTGGCAATCATGAGTGAATGGATGAAG
AAAGGCCCCCTTAGAATGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGGAAGTTCCTTGAAGATGGCAGCATGTCT
GTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAACTATGAATGAAGGGGACCATAGAGTGAGGGAGAAG
CTGATGCATTTGTTTCACGTCTGGAGACTGCAAAGCATAACAGCCAGAGGATCTGGAAGAGAGAAAGAACAGCCTA
AAGAAATGGCTTGAGAAGAACCACATCCCCATCACTGAACAGGGAGACGCTCCAAGGACTCTCTGTGTGGCTGGG
GTCCTGACTATAGACCCACCATATGATCCAGAAAATTGCAGCAGCTCTAATGAGATTATTCTGTCGCGTGTTCAG
GATCTTATTGAAGGACATCTTACAGCTTCCCAATCAGAGGCCAGGAAGTGTGAACATACTGATAGAAAAGACTA
TATTTTATCCCTCATAAAATGTTTTAAATGTAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSEWMKKGPLEWQDIYKEVRVTASEKNEYKGWVLTTPV SANIVLVNFLEDGSM SVTGIMGHAVQTVETMNEGD
HRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKNHIPITEQGDAPRTL CVAGVLTIDPPYDPENCSSSNEI
ILSRVQDLIEGHLTASQ

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FIGURE 1293

AGCCGAGGGCTGCACAAAGACCTTCCTGGCCTGCCCCAGACAGAGCTGAGGACCCCTGGCCGTGGGCTTGGGCCT
CGGCTTACAGGATGGGGCTGCCAGTGTCTGGGCCCCCTCTGCCCTCTGGGTCTAGGGTGCTGCGCCCTGCTC
CTCTCGCTGTGGGCGCTGTGCACAGCCTGCCGCAGGCCCGAGGACGCTGTAGCCCCAGGAAGAGGGCGCGGAGG
CAGCGGGCGAGGCTGCAGGGCAGTGCACGCGCGGCGGAAGCGTCCCTACTGAGGCGGACCCACCTCTGCTCCCTC
AGCAAGTCGGACACCAGACTGCACGAGCTGCACCGGGGCCCCGCGCAGCAGCAGGGCCCTGCGGCCTGCCAGCATG
GATCTCCTGCGCCCACTGGCTGGAGGTGTCCAGGGACATCACCGGACCGCAGGCAGCCCCCTCTGCCTTCCCA
CACCAGGAGCTGCCCCGGGCTCTGCCGGCAGCTGCAGCCACCGCAGGGTGCGCTGGCCTCGAGGCCACCTATTCC
AACGTGGGGCTGGCGGCCCTTCCCGGGGTGAGCCTGGCGGCCAGCCCTGTGGTGGCCGAGTATGCCCGCGTCCAG
AAGCGCAAAGGGACCCATCGCAGTCCCCAAGAGCCACAGCAGGGGAAGACTGAGGTGACCCCGGCCGCTCAGGTG
GACGTCTGTACTCCAGGGTCTGCAAGCCTAAAAGGAGGGACCCAGGACCCACCACAGACCCGCTGGACCCCAAG
GGCCAGGGAGCGATTCTGGCCCTGGCGGGTGACCTGGCCTACCAGACCCCTCCCGCTCAGGGCCCTGGATGTGGGC
AGCGCCCCCTGGAAAACGTGTATGAGAGCATCCGGGAGCTGGGGGACCCTGCTGGCAGGAGCAGCACGTGCGGG
GCTGGGACGCCCCCTGCTTCCAGCTGCCCCAGCCTAGGGAGGGGCTGGAGACCCCTCCCTGCCTCCCTGCCCTGA

ACACTCAAGGACCTGTGCTCCTTCCTCCAGAGTGAGGCCCCGTCCCCCGCCCCGCCCGCCTCACAGCTGACAGCG
CCAGTCCCAGGTCCCCGGGCTGCCAGCCCGTGAGGTCCGTGAGGTCTGGCCGCTCTGACAGCCGCGGCCTCCCC
GGGCTCCAGAGAAGGCCCGCTCTAAATAAAGCGCCAGCGCAGGATGAAAGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1294

MGLPVSWAPPALWVLGCCALLLSLWALCTACRRPEDAVAPRKRRARRQRARLQGSATAAEASLLRRTHLCSLSKSD
TRLHELHRGPRSSRALRPASMDLLRPHWLEVSRDITGPQAAPSAFPHQELPRALPAAAATAGCAGLEATYSNVGL
AALPGVSLAASPVVAEYARVQKRKGTHRSPQEPQOGKTEVIPAAQVDVLYSRVCKPKRRDPGPTTIDPLDPKGQGA
ILALAGDLAYQTLPLRALDVGSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCPSLGRGWRPLPASLP

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FIGURE 1295

ACACACGCTATGCCTTAAATTGGGCCAGGCTGAGGCGCTGCTGCTGGAGCGGCCGATCCGAGACGTGGCTCCCTG
GGCGGCAGAACCATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTAC
CTCTATCCGGCTTCCAGACAAGCTGCAGGAATCCAGGGATTACTCCAAGTGAAGAAAAAGATGGTAATCTTCCA
GATATTGTGAATAGTGAAGTTTGCATGAGTTCCCTGGTTAATTTGCATGAGAGATATGGGCCTGTGGTCTCCTTC
TGGTTTGGCAGGCGCGTCTGTTAGTTTGGGCACTGTTGATGTACTGAAGCAGCATATCAATCCCAATAAGACA
TTGGACCCTTTTGAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGTGAGTGAACACCAC
ATGAGGAAAAAATTGTATGAAAATGGTGTGACTGATTCTCTGAAGAGTAACTTTGCCCTCCTCTAAAGCTTTCA
GAAGAATTATTAGATAAAATGGCTCTCCTACCCAGAGACCCAGCAGTGGCCCTCAGCCAGCATATGCTTGGTTTT
GCTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGATGATCAGGAAGTCATTGCTTCCAGAAG
AATCATGGCACACCCCTCATGCAACTGGAGTCTGTTTAAAGGAACATCATAAAGAAGGAAAGGAAGGAAGTTCAG
TCAACATATTTTATTGACTCCTTAGTACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTT
TCTCTGGCCAGTTGCATAATAACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTAAACCACCTCTGAAGAAGTT
CAAAAAAATTATATGAAGAGATAAACCAAGTTTTTGGAAATGGTCTGTTACTCCAGAGAAAATTGAGCAGCTC
AGATATTGTGAGCATGTGCTTTGTGAAGTGTCCGAAGTCCAAAGTACTCCAGTTTCTGCCAGTTTCAAGAT
ATTGAAGGAAAAATTGACCGATTTATTATTCCTAGAGAGACCCCTCGTCCTTTATGCCCTTGGTGTGGTACTTCAG
GATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGGTTTGATGATGAATTAGTAATGAAAACTTTT
TCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACAGTACTTCTT
AGTGTATTTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTATTGAAACAAAGTATGAAGTGGTAACA
TCATCAAGGGAAGAAGCTTGGATCACTGTCTCAAAGAGATATTAATTTTATACATTTAAATCATTGTTAAAT
TGATTGAGGAAAACAACCATTTAAAAAAATCTATGTTGAATCCTTTTATAAACCAGTATCATTGTAATATAA
ACACCTATTTGTACTTAATTTGTAAATTTGGATTTTATATATCATATTTCTTAATTCATTGGACACATTTGA
CTTACTGCACAGTATATTGATCATTTTAAATGGGAACTTTAGCTTTCTACTTTTAAATTTGGTTTTTCACTTTC
TATGCCATTATTTTGGATTCTTTTCTTAGTGTGAGCTCTAAATCAATGTTCTTGAAAAGAAATTATTTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLDFAIFAVTFLLALVGAVLYLYPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGR
RVVVS LGTVDLKQHINPNKTLDPFETMLKSLLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFALLKLSEELL
DKWLSYPETQHVPLSQHMLGFAMKSVTQMVMGSTFEDDQEVIRFQKNHGTPSCNWSLFKEHHKRTKRKELQSTYF
IDSLVQGNLNDQQILED SMIFSLASCIITAKLCTWAICFLT TSEEVQKKLYEEINQVFGNGPVTPEKIEQLRYCQ
HVLCELFRTAKLTPVSAQFQDIEGKIDRFIIPRETIVLYALGVVLQDPNTWPSPHKFDPRFDELVMKTFSSLG
FSGTQECPELRFAYMVTTVLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

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FIGURE 1297A

GTGGGATAAAGGAATGAGGTTTCAAGAGGGGAGGGAGTTGCCCGCAGCCGCACCGCACGTCTTCAGCCCGACCG
TTGTCTGACCTCTCTGTCCCGTCCCTGCCAGTCTCACCATGGCCTTCTGGACACAGCTGATGCTGCTGCTCT
GGAAGAATTTTCATGTATCGCCGAGACACCGGTTCCAGCTCCTGGTTCGAATTGCTGTGGCCTCTCTTCTCTTCT
TCATCCTGGTGGCTGTTCGCCACTCCACCCGCCCTGGAGCACCATGAATGCCACTTCCCAAACAAGCCACTGC
CATCGGCGGGCACCGTGGCCTGGCTCCAGGGTCTCATCTGTAATGTGAACAACACCTGCTTTCCGCAGCTGACAC
CGGGCAGGAGCCCGGGCGCTGAGCAACTTCAACGACTCCCTGGTCTCCCGGCTGCTAGCCGATGCCCGCACTG
TGCTGGGAGGGGGCAGTCCCCACAGGACGCTGGCTGGCTAGGGAAGCTGATCGCCACGCTGAGGGCTGCACGCA
GCACGGCCCGACCTCAACCAACCAAGCAGTCTCCACTGGAACCACCCATGCTGGATGTCGCGGAGCTGCTGACGT
CACTGCTGCGCACGGAATCCCTGGGGTTGGCACTGGGCCAAGCCCAGGAGCCCTTGACAGCTTGTGGAGGGCCG
CTGAGGACCTGGCCAGGAGCTCCTGGCGCTGCGCAGCCTGGTGGAGCTTCGGGCAGTGTGCAGAGACCCCGAG
GGACAGCGGGCCCCCTGGAGTTGCTGTGAGAGGCCCTCTGCAGTGTGAGGGGACCTAGCAGCACAGTGGGCCCT
CCCTCAACTGGTACGAGCTAGTGACCTGATGGAGCTGGTGGGGCAGGAGCCAGAATCCGCCCTGCCAGACAGCA
GGCTGAGCCCCGCTGCTCGGAGCTGATTGGAGCCCTGGACAGCCACCCGCTGTCCCGCTGCTGTGGAGACGCC
TGAAGCCTCTGATCCTCGGAAGCTACTCTTTGCACCAGATACACCTTTTACCCGGAAGCTCATGGCCAGGTCA
ACCGGACCTTCGAGGAGCTCACCTGCTGAGGGATGTCCGGGAGGTGTGGGAGATGCTGGGACCCCGGATCTTCA
CCTTCATGAACGACAGTTCCAATGTGGCCATGCTGCAGCGCTCCTGCAGATGCAGGATGAAGGAAGAAGGCAGC
CCAGACCTGGAGGCCGGGACCACATGGAGGCCCTGCGATCCTTTCTGGACCTGGGAGCGGTGGCTACAGCTGGC
AGGACGCACACGCTGATGTGGGGCACCTGGTGGGCACGCTGGGCCGAGTGACGGAGTGCCTGTCTTGGACAAGC
TGGAGGCGGCACCCCTCAGAGGCAGCCCTGGTGTGCGGGGCCCTGCAACTGCTCGCGGAACATCGATTCTGGGCCG
GCGTCTCTTCTTGGGACCTGAGGACTCTTCAGACCCACAGAGCACCCAACCCAGACCTGGGCCCGGCCACG
TGCGCATCAAAATCCGCATGGACATTGACGTGGTTCAGAGGACCAATAAGATCAGGGACAGGTTTGGGACCTG
GCCCAGCCGCGGACCCCTGACCGACCTGCGCTACGTGTGGGGCGGCTTCTGTACCTGCAAGACCTGGTGGAGC
GTGCAGCCGTCCGCGTGTCTAGCGGCGCCAACCCCGGGCGGGCTCTACCTGCAGCAGATGCCCTATCCGTGCT
AIGTGGACGACGTGTTCTGCGTGTGCTGAGCCGGTCTGCTGCCGCTCTTCTGACGCTGGCTGGATCTACTCCG
TGACACTGACAGTGAAGGCCGTGGTGGGGAGAAGGAGACGCGCTGCGGGACACCATGCGGCCATGGGGCTCA
GCCGCGCGGTGCTCTGGCTAGGCTGGTTCTCAGCTGCCTCGGGCCCTTCTGCTCAGCGCCGCACTGCTGGTTC
TGGTGTCTCAAGCTGGGAGACATCCTCCCTACAGCCACCCGGGCGTGGTCTTCTGTTCTTGGCAGCCTTCGCGG
TGGCCACGGTGACCCAGAGCTTCTGCTCAGCGCCTTCTTCTCCCGGCCAACCTGGCTGCGGCTGCGGCGGCC
TGGCCTACTTCTCCCTCTACCTGCCCTACGTGCTGTGTGTGGCTTGGCGGGACCGGCTGCCCGCGGTGGCCGG
TGGCCGCGAGCCTGCTGTGCGCCGTGGCCTTCGGCTTGGGTGCGAGAGCCTGGCTCTGCTGGAGGAGCAGGGCG
AGGGCGCGCAGTGGCACAACGTGGGCACCCGGCTACGGCAGACGTCTTCAGCCTGGCCCAGGTCTCTGGCCTTC
TGCTGCTGGACGCGGCGCTCTACGGCCTCGCCACCTGGTACCTGGAAGCTGTGTGCCAGGCCAGTACGGGATCC
CTGAACCATGGAATTTTCTTTTCGGAGGAGCTACTGGTGGGACCTCGGCCCCCAAGAGTCCAGCCCTTGCC
CCACCCCGCTGGACCCAAAGGTGCTGGTAGAAGAGGCACCGCCCGGCTGAGTCTGGCGTCTCCGTTCGACGCC
TGGAGAAGCGCTTTCTGGAAGCCCGCAGCCAGCCCTGCGGGGCTCAGCCTGGACTTCTACCAGGGCCACATCA
CCGCTTCTGGGCCACAACGGGGCGGCAAGACCACCCCTGTCCATCTTGAGTGGCCTCTTCCACCCAGTG
GTGGCTCTGCCCTCATCTGGGCCACGACGTCCGCTCCAGCATGGCCGCCATCCGGCCCCACCTGGGCGTCTGTC
CTCAGTACAACGTGCTGTTTGACATGCTGACCGTGGACGAGCAGTCTGGTTCTATGGGCGGCTGAAGGGTCTGA
GTGCCGCTGTAGTGGGCCCCGAGCAGGACCGTCTGCTGCAGGATGTGGGGCTGGTCTCCAAGCAGAGTGTGCAGA
CTCGCCACCTCTCTGGTGGGATGCAACGGAAGCTGTCCGTGGCCATTGCCTTTGTGGGCGGCTCCCAAGTTGTTA
TCCTGGACGAGCCTACGGCTGGCGTGGATCCTGCTTCCCGCCGCGGTATTTGGGAGCTGCTGCTCAAAATACCGAG
AAGGTGCGACGCTGATCCTCTCCACCCACCACCTGGATGAGGCAGAGCTGCTGGGAGACCGTGTGGCTGTGGTGG
CAGGTGGCCGCTTGTGCTGCTGTGGCTCCCCACTTCTTCTGCGCCGTACCTGGGCTCCGGCTACTACCTGACGC
TGGTGAAGGCCCGCTGCCCTGACCACCAATGAGAAGGCTGACACTGACATGGAGGGCAGTGTGGACACCAGGC
AGGAAAAGAAGAATGGCAGCCAGGGCAGCAGAGTGGCACTCCTCAGCTGCTGGCCCTGGTACAGCACTGGGTGC
CCGGGGCACGGCTGGTGGAGGAGTGCCACACGAGCTGGTGTGGTGTGCCCTACACGGGTGCCCATGACGGCA
GCTTCGCCACACTCTCCGAGAGCTAGACACGGCTGGCGGAGCTGAGGCTCACTGGCTACGGGATCTCCGACA
CCAGCCTCGAGGAGATCTTCTGAAGGTGGTGGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCG

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FIGURE 1297B

GGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCCTGCGGGCTCAAGATGCCGCCACAGGAGACAGCGC
TGGAGAACGGGGAACCAGCTGGGTCAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTAC
AGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGCCCGCCGAGCCGCC
GCGGCCTGTTGCCCCAGATCGTGTGCTGCCCTCTTTGTGGGCCTGGCCCTCGTGTTCAGCCTCATCGTGCCCTC
CTTTGCGGCACTACCCGGCTCTGCGGCTCAGTCCCACCATGTACGGTGTCTCAGGTGTCTTCTTTCAGTGAGGACG
CCCCAGGGGACCTTGGACGTGCCCGGCTGCTCGAGGCGCTGCTGCAGGAGGCAGGACTGGAGGAGCCCCCAGTGC
AGCATAGCTCCACAGGTTCTCGGCACCAGAAGTTCTGCTGAAGTGGCCAAGGTCTTGCCAGTGGCAACTGGA
CCCCAGAGTCTCCATCCCCAGCCTGCCAGTGTAGCCAGCCCGGTGCCCGCGCCTGTGCCCCGACTGCCCGGCTG
CAGCTGGTGGTCCCCCTCCGCCCCAGGCAGTGACCGCTCTGGGGAAGTGGTTCAGAACCTGCAGGCCGGAACC
TGTCTGACTTCTCGGTCAAGACCTACCCGCGCCTGGTGCGCCAGGGCCTGAAGACTAAGAAGTGGGTGAATGAGG
TCAGGTACGGAGGCTTCTCGCTGGGGGGCCGAGACCCAGGCCTGCCCTCGGGCCAAGAGTTGGGCCGCTCAGTGG
AGGAGTTGTGGGCGCTGCTGAGTCCCTGCCTGGCGGGGCCCTCGACCGTGTCTGAAAAACCTCACAGCCTGGG
CTCACAGCCTGGACGCTCAGGACAGTCTCAAGATCTGGTTCAACAACAAAGGCTGGCACTCCATGGTGGCCTTTG
TCAACCGAGCCAGCAACGCAATCTCCGTGCTCACCTGCCCCAGGCCGGGCCGCCACGCCACAGCATCACCA
CACTCAACCACCCCTTGAACCTCACCAAGGAGCAGCTGTTTGAAGCTGCATTGATGGCTCCTCGGTGGACGTCC
TCGTCTCCATCTGTGTGGTCTTTGCCATGTCTTTGTCCCGCCAGCTTCACTCTTGTCTCATTTAGAGGAGCGAG
TCACCCGAGCCAAGCACCTGCAGTCTATGGGGGCGCTGTCCCCACCCCTCTACTGGCTTGGCAACTTTCTCTGGG
ACATGTGTAATACTACTTGGTGCCAGCATGCATCGTGGTGTCTATCTTTCTGGCCTTCCAGCAGAGGGCATATGTGG
CCCCTGCCAACCTGCCTGCTCTCCTGCTGTGTGCTACTACTGTATGGCTGGTGCATCACACCGCTCATGTACCCAG
CCTCCTTCTTCTTCTCCGTGCCAGCACAGCCTATGTTGGTGTCTACCTGCATAAACCTCTTTATTGGCATCAATG
GAAGCATGGCCACCTTTGTGCTTGAGCTCTTCTCTGATCAGAAGCTGCAGGAGGTGAGCCGGATCTTGAACAGG
TCTTCTTATCTTCCCCACTTCTGCTTGGGCCGGGGGCTTATTGACATGGTGCAGAACAGGCCATGGCTGATG
CCTTTGAGCGCTTGGGAGACAGGCAGTTCAGTACCCCTGCGCTGGGAGGTGGTGGCAAGAACCTCTTGGCCA
TGGTGATACAGGGGCCCCCTCTTCTTCTTCTTCACTACTGCTGCAGCACCGAAGCCAACCTCTGCCACAGCCCA
GGGTGAGGTCTCTGCCACTCTTGGGAGAGGAGGACGAGGATGTAGCCCGTGAACGGGAGCGGTGGTCCAAGGAG
CCACCCAGGGGATGTGTGGTGTGCTGAGGAACCTGACCAAGGTATACCGTGGGCAGAGGATGCCAGCTGTTGACC
GCTTGTGCTTGGGATTCCCCCTGGTGAGTGTCTTTGGGCTGCTGGGTGTGAATGGAGCAGGGAAGACGTCCACGT
TTCGATGGTGACGGGGACACATTGGCCAGCAGGGGCGAGGCTGTGCTGGCAGGCCACAGCGTGGCCCCGGGAAC
CCAGTGTGCGCACCTCAGCATGGGATACTGCCCTCAATCCGATGCCATCTTTGAGCTGCTGACGGGCCGCGAGC
ACCTGGAGCTGCTTGCAGCGCTGCGCGGTGTCCCGGAGGCCAGGTTGCCAGACCGCTGGCTCGGGCCTGGCGC
GTCTGGGACTCTCATGGTACGCAGACCGGCTGCAGGCACCTACAGCGGAGGGAACAAACGCAAGCTGGCGACGG
CCCTGGCGCTGGTTGGGGACCCAGCCGTGGTGTCTTGGACGAGCCGACCACAGGCATGGACCCAGCGCGCGGC
GCTTCTTTGGAACAGCCTTTTGGCCGTGGTGCGGGAGGGCCGTTCAGTGATGCTCACCTCCCATAGCATGGAGG
AGTGTGAAGCGCTCTGCTCGCGCCTAGCCATCATGGTGAATGGGCGGTTCCGCTGCCTGGGCAGCCCCGAACATC
TCAAGGGCAGATTGCGGGCGGGTCACACACTGACCCTGCGGGTGCCCCGCCGAAGGTCCCAGCCGGCAGCGGCCT
TCGTGGCGGCCGAGTTCCCTGGGTGCGAGCTGCGCGAGGCACATGGAGGCGCCTGCGCTTCCAGCTGCCGCCGG
GAGGGCGCTGCGCCCTGGCGCGCGTCTTTGGAGAGCTGGCGGTGCACGGCGCAGAGCACGGCGTGGAGGACTTTT
CCGTGAGCCAGACGATGTGGAGGAGGTATTCTTGTACTTCTCCAAGGACCAGGGGAAGGACGAGGACACCGAAG
AGCAGAAGGAGGCAGGAGTGGGAGTGGACCCGCGCCAGGCCTGCAGCACCCCAAACGCGTACGCCAGTTCTCTG
ATGACCCTAGCACTGCCGAGACTGTGCTCTGAGCCTCCCTCCCTGCGGGGCGCGGGGAGGCCCTGGGAATGGC
AAGGGCAAGGTAGAGTGCTTAGGAGCCCTGGACTCAGGCTGGCAGAGGGGCTGGTGCCTGGAGAAAAATAAGAG
AAGGCTGGAGAGAAGCCGTGGTGGTGAAA

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FIGURE 1298

MAFWTQLMLLLWKNFMYRRRQPVQQLLVELLWPLFLFFILVAVRHSHPPLEHHECHFPNKPPLPSAGTVPWLQGLIC
NVNNTCFPQLTPGEEPGRLSNFNDLSVSRLLADARTVLGGASAHRTLAGLGKLIATLRAARSTAQPQPTKQSPLE
PPMLDVAELLTSLRTESLGLALGQAQEPHLSLLEAAEDLAQELLALRSIVELRALLQRPRGTSGPLELLSEALC
SVRGPSSTVGPSLNWYEASDLMELVGQEPESALPDSSLPACSELIGALDSHPLSRLLWRRLLKPLILGKLLFAPD
TFPTRKLMAQVNRTFEELTLLRDVREVWEMLGPRIFTMNDSSNVAMLQRLQMQDEGRRQPRPGGRDHMEALRS
FLDPGSGGYSWQDAHADVGHLVGTILGRVTECLSLDKLEAAPSEAALVSRAQLLAEHRFWAGVVFLLGPEDSSDPT
EHPTPDLGPGHVRIRKIMDIDVVRTNKIRDRFWDPGPAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRA
GLYLQOMPYPCYVDDVFLRVLSRSLPLFLTLAWIYSVTITVKAHVREKETRLRDTMRAMGLSRAVLWLWGLFSLCL
GPFLLSAALLVLVLKGLDILPYSHPGVVFLFLAAFAVATVTQSFLLSAFFSRANLAAACGGLAYFSLYLPYVLCV
AWDRRLPAGGRVAASLLSPVAFGFGCESLALLEEQGEQAQWHNVGTRPTADVFLAQVSGLLLLDAALYGLATWY
LEAVCPGQYGIPEPWNFPFRSYWCGPRPPKSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLEKRFPGSPQPALR
GLSLDFYQGHITAFILGHNGAGKTTTSLISGLFPPSGGSFILGHDVRSMAAIRPHLGVCQYNVLFDMLTVD
HWFYGRLLKGLSAAVVGPEQDRLLQDVGLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQVVILDEPTAGVDPASR
RGIWELLLKYREGRTLILSTHHLDEAELLGDRVAVVAGGRLCCCGSPLFRRHLGSGYYLTIVKARLPLTTNEKA
DMDMEGSVDTRQEKNGSQGSRVGTPQLLALVQHWVPGARLVEELPHELVLVLPYTGADGFSATLFRDLTRLA
ELRLTGYGISDTSLEEIFLKVVEECAADTDMEDGSCGQHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETD
QGSQPDVAVGRVQGWALTRQQLQALLKRFLLARRSRRLFAQIVLPALFVGLALVFSLIVPPFGHYPALRLSPTM
YGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHSSHRFSAPEVPAEVAKVLASGNWTPESPSPACQCSQP
GARRLLPDCPAAAGGPPPPQAVTGSGEVVQNLTGRLNSDFLVKTYPRLVQRGLKTKKWVNEVRYGGFSLGGRDPG
LPSCQELGRSVEELWALLSPLPGGALDRVLKNTAWAHSQDQSLKIWFNNKGWHSMAFVNRAVSNAILRAHLP
PGRARHAHSITTLNHPLNLTKEQLFEAALMASSVDVLVSICVVFAMSFVPASFTLVLEIEERVTRAKHLQLMGGLS
PTLYWLGNFWDMCNYLVPACIVVLIFLAFQQRAYVAPANLPALLLLLLLYGWSITPLMYPASFFFVSPSTAYVV
LTCINLFIGINGSMATFVLELFSQKLQEVSRILKQVFLIFPHFCLGRGLIDMVRNQAMADAFERLGRQFQSP
RWEVVGKNLLAMVIQGPLFLLFTLLLQHRSQLLPQPRVRSPLLGEEDEDVARERERVVQATQGDVLVLRNLTK
VYRGQRMPAVDRLCLGIPPGECFLLGVNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAREPSAAHLSMGYCPQS
DAIFELLTGREHLELLARLRGVPEAQVAQTAGSGLARLGLSWYADRPAGTYSGGNKRKLATALALVGDPVAVFLD
EPTTGMDPSARRFLWNSLLAVVREGRSVMLTSHSMEECEALCSRLAIMVN

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FIGURE 1299

GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATGGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCTCCCACGCTCCTGCCGCTGTCTCCCACGTCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGAACGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACACTTAAATTTTTCCAGACATTTGCCTTGCTTGAGATAGTTCAGTGTTAATTGGAATTGTACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTTGGA
GTTGCTGGTGAACCTTCTTACAATATACGCTGCCTTGCCGATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAATAACAATGTCTCTTTTGACTACTATTATTTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
CCACAACCTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
TAAACAACCTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLLDHLPYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMF SIRLPNKYNVSFDYYYFLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

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FIGURE 1301A

GGCGGCTCCGGCGCAGACCTTGGAGAGCACAGCTGCCGGCCCCGAGCCAGCCTCGGTTCCCGCGGCCCGCCGAG
GCTCGGAGCCATCCAGCGACCCGGCGACCGGCTCAGGCCCGCCATGGGGAAGACCAACAGCAAGCTGGCCCCC
GAGGTGCTGGAGGACCTTGTTTCAAGAACTGAGTTTACGCGAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCTTG
AAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTACGAGCTCTACATCAAGTTCTTCCCTACGGCGAC
GCCITCCAAGTTTCGCGCAGCACGCTTTCCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTC
ATCTGCCCTGTGCGTCACTTCCCGCGGAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTG
GACGGCGACGGGCGAATCACGCGCCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTG
ATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAG
GATAAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGAGCCAAAGAGTGACCCATCCATTGTGTGCTGCTG
CAGTGTGACATGCAGAAGTAGAAGCTGGTGGGGGAGGGTCCCTGGCCAGAAGGGGATGGCCACCTCCCAACC
TGATGACCTCTCTGGCTGGCCTCCAGGAGGAGGGACACTCCAGCCCCCTCTCTGGCCACCCAGTCTCTGCC
CAAGCCCTTCTTCCCTCCATCAAGATCTTTGAGGGACCACCTCACCTTGCAAAGAGACAGGTCCTCCAGTACC
CTGTCTTCTAGCCCCACCTCCCACTTGGCCAGAACCAATGTCCATTGGGCATAGGGGAGTTGGCTTTTGCCCCAG
GAGGTGAGGTTAAGGAGTTGGGGGCTGGGGTTCTGGTTAGGAATTCTCTTGATCTGGGATTATGCTTTATAGG
ATGTGGTCCACAGGCCTGTACAGGGCCAAATTGGGTCTGTCCATTCTGAGGCTCCAGATCCCATAAAGGGGG
TCTCTTCCCATCCCTTCTACTCTACCTGGCCCTTCCAGCCCCAGCCTTTGGAGCGTTCACTCAGTCTTCTTTC
AGCTAATGATTACTGAGCACCTGTTTGGTGCTAAGGATATGGTCATTACAAGACACATCTTGTGCCCTCTGGAA
GCTCATAGGGTTGTGAGGCAAACTTCCAGCGCTCAGGGTCTCAGCTAAGCAGAAGGTGCTGGAAGGCTGGTTAGT
CTGGGAGGAGCTATTTTCTTCCAGCTCAGCTCCACAAAAGCTGCAGAAGGACGAAATGAAAAGCATTGGAA
GTTTAGGAGCCAGCTGAGTGAAAGTTTAAAGAAAATGAAATTTATGTCATACTTATTTTTTAGTACCCTTTAA
AGGAGCTACAGTCATTTTATTATTTTCAAGGAGTTAAAATATACTCTATATTACTTGGTTTATTATAAAATGATTA
AATGAATAGAGAAAATATTAATTTTCAAGGGGAAAAAAGCTGAGAAGAAAGGGAGAAAAGACCATGAAATTTACC
AGATAACACTTTTAAAGACTAAGTCTGAGCTGCCACTCTCAGCAGTTTTTGCTGCTTCAGCTCTTCTTTTTAT
TACCTTTTTCAATTCAACAAGCAACTTTCTGCTACATACTTACTCCGGTTGGGTGCTGACTTCAGGGACAGGAAA
AAGCAAGGTTTGCAAAGAGTGAACTAGTGTATATTCCGTATCTTGGTAGTTCGTTTCTGGATTGGGTTTAGTTT
CAGAACTGGACTTGTCTTCTACTGCCACAGAATCAGAAAGAGCTAGAAGAAAAGGCTACCTGGCCACTGTTTA
GGCACCACAGACATAATTTATGGACGAAATGCCTAAAAATGTGCGCAGGCATGCTCTGTTTGAGAGGCTTTTTCTAA
CCCCAAATCTTAGATCTGCCAGGTAGTTCAACATCTTCAAGTGTGCTGTTCTGCTTCCAATGCCTGCTTCCC
AATTTTGATCCATGAGCTATACAGCTGCATGCTTTGACTGCCGAAAAATTAATCTTGCTTCTTTCATCAGGTCT
TTCTCTGTACTTGTGATCAGAAATTACCTTTGACGTGCAGTGACAGTTGATTTCTCTTGAAGTCCCGGTGAAA
ACAGTCTAGTACACAGGTGCTGTGACCCAGGGTGGGAGCAGGAAATGATTGCTGAGCCCGGGGAGGGGAATTG
CATCTGCAGGAAAGAGATGCAGCATGCTCCTCACTCTGAGTGCCACCTGTCTGCTTCTCTGCAGGTGAAAAC
TCTGGGGGATGCTGATCAATAGAGCTTGGTCCCAAGCTCTACTGGGCCCTTGGAGGTAGCAAGGCCACTGGGTTG
CTATCCTCTTGATGGGGATAGCAACCACTGGTTTGCAACCACTGGGTTGCTATCCTTTTGCTATCCTCTTGCTCA
TGACCAGCCATATGGTGAGGCTGGGGAGTTCACATCTCAGGCAGGAAGTAGCAGTTGTTTATCCAGCAATGCCT
CAAGGATGTTGATTGCTCCAGGAGCTGGCTATTAGGTATGTCTTGTGCGGTGAGTCAGCATCAGACACATA
GATGCTCACCAGCCTGGCTTAGCTGGGACCTAAATCTTCTGGTGAAAAGCTTTTCACTAAGTGAGGTTCTTCCC
TGCAAATGCTGAATCTAGCCTAATTCGCAACCACACAGAAATTCATGGCTTTCAAAGGCTTGCCATGTGCCCCAT
CTCATTCTATACTCACATCCCATGGAGGTGAGGATTTTCACTTCTTTTCTTAGACTTGAAGCTGAGATTGAGA
GAGGAAGCATCCCTTGTGCAAGATCACATAGTCAGGAGGTGACACAGGGCTAAGACTTGAACCAAGGCTCTAAGA
GGATTTCTTCTTTTCAAGTCTCTTCCCTGTCCATTCTGTGACTAAGCTGTGCAGAGGTTGACAGCAGGGCAAG
TTACATTGATATTTCATCCTTTATAGGCTTCTGCTAAAAAGCTTCTGAGATGTGGTCTTCCAAAAAATAGGA
GCTTGGTTGAAGTCCCCACATTTTCAAGCACTCAGTGTCTGCTCTGGCAGCTGTGCTAACAGCTCAGTGCTGT
CCTGGGAGTCTCTGACTCAGAACCCTCGAAGCATCTGCAATGTCTTTACCCACCATCATCGTCACTAAGAGAA
ACATGCTTACCCATGAAGGCGTGTGTTGATTACTCCAGGCTTCTGGACACACATACCCATGGGTGATTTTGTCTC
TCAGGCCCAATATTCTCAGACAGCCCAGCAGTGTGAACACACAATGCCAGGCCAGGAAGTGGGACCACCATCTTG
CTGATGGAAGGAACAACAGGTGGCCCAGGACATGCTCCTGCATACTCTGGGTGTCCAGGGAGTGTGTGCTCAG
GAGCACTGTGGTAGAGCACTGGCCCTGCCTTGAGAAGAGACACAGGTCTCCCGTCCCTGCACCAGCTGAGAGAGA

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FIGURE 1301B

CTTGCCACAAAGCACAAAGGCTGGCAGAGATTTATGTATGACTTGCACAGACACAAAAATATACAGACAATCAAAA
CATTGATATATTCAAACCTCTCCTTTAAATTCCAATCTTATTGCAACAACCTCTGTGAATTGCAAGGTCCCAGAATC
TGCCTTCTCACATACTCTACCCTCATTCAATCCTTTGGGCTAATTGATGAGCATCTTATTTCTTATCTCTAAAAA
TTATCAGCAAAGGCTACTTCAGATGGCCACTTTAGTCCTTTAGCTGTAGTCAGGATTATTTAACTTACCTGTAT
ATCAAAAGTGAAGAAAAAGTTAGTTCATAAGTAAAGGCACTAAATCCTTTCTGACAATGGCAGAGTCTCTAGAG
GTAGAAATTTGCCTTGCTGCAGAGAGAGAAGGAATGGCGTGGGATGGGGGAAAGAAAAGAGAAGAAGAGAA
GAAGCTGGGGTCTCCAGGCAGGGTAGTAAGCTGACACTAAATATTTTTTACACAAAAATGTATTGAAGCAACAAA
TATTTCTGAAGATCCACCCTGGGTGAGGCTTTGAGCTGACTTTAGAGATCACTGTGGGGTCAAGAATGTCTTAC
ATGTTTTATTTCATCATTCTTGAAAAAGAAATAATTCAAACCTTGGAATTAAAAAGTCAGAAAAACAAAAAAA
AAAAAAA

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FIGURE 1302

MGKTNSKLAPEVLEDLVQNTSEFSEQELKQWYKGFLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFRTFDKN
GDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLDGDGRITRLEMLEIEAIYKMVGTVIMMRMNQDGLTPQQR
VDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLLQCDMQK

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FIGURE 1303

CAAAGGTCAGAGGTAAAGAAGTCATGGCGGCGCTGTGTGGACCCGTGCTGTGGCTGCCGAGAGCCATTTTCTGC
GAGTGTTCCTCTTCTCAGGCCCTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGGTAGTTCCAATGCCA
AGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGAGCGGCACTCGGAGCTTCTACAGAAGGTGGAGC
CCCTACAGAAGGGTTCTCCAAAAATGTGGAATCCTTTGCATCTATGCTGAGACATTCTCCTCTTACACAGATGG
GACCTGCAAAGGATAAACTGGTCATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTG
GAAAGTTTCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACCAGGGTCCGGTTGC
GGCTATTAGATCTTGAACCTACGTCTAGGTTTCCTGGGAGCAACAACAGATACAACCTGTACTAGAGGCTAATGCAG
TTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCGAAAGAAGAACATCATGAAAAATAAATGAACCTTGCTT
AGTGGATTGACTCCTTTGCTGAAGTCAGTTATTCATCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAA
TGAAGATATAATAAAATAAAAGCTATAATTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1304

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQKGSFK
NVESFASMLRHSPLTQMGPADKLVIGRIFHIVENDLYIDFGGKFHCVCCRPEVDGEKYQKGTRVRLRLDLELT
SRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHKEK

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FIGURE 1305

CCCAAATATATATTTAATCTTGTGGTTCAAATAAGCTTTTGGCTCACATCTAAGCACATCATAAAGAACGCTGTA
GAAGAGGTGACATGATGAGGCGGGAAGACGAGGAAGAGGAGGGAACAATGATGAAGGCAAAGGGGACTTAGAGA
TGAAGGAGGAGGAAGAGATTAGTGAGACAGGAGAACTGGTTGGCCCTTTTGTGAGTGCTATGCCCCACTCCAATGC
CCCACAACAAGGGCACCCGGTTCTCTGAGGCATGGGAATATTTCCACCTAGCTCCTGCTCGTGCTGGGCACCATC
CCAACCAGTATGCCACCTGCCGCTGTGTGGCAGGCAGGTGAGCCGTGGCCCTGGGGTCAACGTGGGCACCACTG
CACTGTGGAAGCATCTGAAAAGCATGCACAGAGAGGAGCTGGAGAAGAGTGGCCATGGTCAGGCTGGGCAGCGCC
AGGATCCAAGGCCCCACGGGCCCCAGCTCCCCACAGGCATTGAGGGTAACTGGGGTAGGCTCCTGGAGCAGGTGG
GCACCATGGCTTTGTGGGCCAGCCAAAGGGAAAAGGAGGTGCTTAGGAGGGAAGGGCAGTGGAATGGCGGGAGA
GGGCTGTGAAAAAAGGGAGCGAGCCCTGGAGGAGGTGAAAGGGCCATCCTGGAGATGAAGTGAAGGTGAGGG
CTGAGAAGGAGGCATGCCAGCGGGAGAAAGAGCTGCCTGCAGCAGTACATCCCTTCCATTTTGTATTAAATTGGGC
TTGGAGAATCTATTCTGAAAACATTGACTCTAGACTTGTAGAAAAGAGCCATTTTAGTTTCAACTCAAATGTAAA
GCAAAGTAGTTTGGTGACATTTTGCTTTTATGTGAAATAGTGACAGTATGAGTTAATCTGAGCAGGTCTGAATT
GACCAAATGCTTATCTACGAGGTTCTAGAGCTCTGCTGACCCTTGCCGAAACTCTAAAATGTACCTATTAAAG
ATAAATGCTTCTACCAAAGTAAAACCTCTGTGAGTTGTTTCAGGGCAGAATGTACCAGCCAGTCAGCGTTGTTAA
CAAAATAATCAGATTTTTGCCTAGCACTCGGTTTTGGTGGAGCTGACGATTTTGAGGGCTGAGGCTGGTTAGGTA
GCTGGAATGTGCCTATGTGACCAGCTCACTTGACAGACCCCTGCCGGAAGCAGAGCTTAATCTTCTAGGACTGA
GGTCTTAGCACATGTAAGTGGTGGAGTTTCCAGACCACCAAGTATGAATAAAAGCTTGTCTGTGTGACCCAGCAAG
TGGAAGGACAAAGAAGCTGTGAGCCTCAGATCTTTGGACCTTTCCAATGCGTCTCTTTCTCCTGTTATTGCTGCAA
TGTATTTTCTTGCTTATATTAAAGTTGTTTCATCACTAAAAA

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FIGURE 1306

MRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPVFSAMPTPMPHNKGTRFSEAWEIFHLAPARAGHHPNQYA
TCRLCGRQVSRGPGVNVGTTALWKHLKSMHREELEKSGHGQAGQRQDPRPHGPQLPTGIEGNWGRLLLEQVGTMAL
WASQREKEVLRRERAVEWRERAVEKRERALEEVERAILEMKWKVRAEKEACQREKELPAAVHPFHFV

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FIGURE 1307

CACATTCCAGAAAAAATACCGCTTTCACAAAACCTCGCTCCGCATGACCCACAGAACACCCCAAGGTCAAAAAGAG
TCCAAAGTTTCAGAAAGAAAAGTTATCTGAGTAGACTGATGCTCGCAAACAGGCCTCCGTTCTCTGCAGCGAAGAG
CCTCATAAATTCCCCTTCACAAGGGGCTTTTTTCATCCTTAGGAGACCTGAGTCTCAAGAAAACCCCTTTTCTGGA
AGTATCTGCTCCTTCAGAACATTTTATAGAAACCACTAATATAAAAGACACAACCTGCAAGAAATGCCTTGGAAGA
AAATGTTTTTATGGAAAACTAATATGCCAGAAGTCACCATCTCTGAAAACACAACTACAATCATCCTCCTGA
GGCAGATTCCGCTGGGACTGCATTCAACTTAGGGCCAAGTGTAAACAACTGAGACAAAATGGGAATACAACAA
CGTGGGCACTGACCTGTCCCCGAGCCCAAAAGCTTCAATTACCCATTGCTCAGTTTGAAATTGAGCTAAACCCAG
CAGTACAGTCCCTTATCCCCAACAACTGTGAGAAGGCTCATTTCTCATGTTATCCGGACCTTGAAGATGGAC
TGCTCTGGGGCCCATGTGCAAGTGACCTGTGCCAAGCTCATCTCCAGGACAGGCCACCTGATGAAGCTTCTCAGT
GGGCAGCAGGAAGTAAAGGCATCTGAGATAGAATGGGATACGGACCAATGGAAGACTGAGAACTACATTAATGAG
AGCACGGAAGCCAGAGTGAACAGAAAGAGAAGTCGCTTGAGCTCACAAAAGAAGTTCAGGATACGGCTATACT
GACAAACTCATCTTGGCATTAAATTGTGACTGAAATACTAATGATTTTGATTATACTTTTCTGCCTCATTGTGGTT
TAGGATTGGGTGTGTGTCTCTCTGAAATGGCACTCAAATGTTTGCTGACTCCTACTCTGCGTGACTGGGGT
GTACAGCTATGGACTGATGCATCCCATCCCATCATCTTTCACGAGCAAAGCAGTCTCTTTTTTGACAGCTGAAGA
AGAACCTGTAGGGAATCCAGAAGGAGCATTGATGAAGGTGTTACAAGCCCGGAAGAATTACACAAGCACTGAGCT
GACTGTTGAGCCGGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTCAGGCTTTGGGAGTGAGCAGCTAGACAC
CAATGACGAGAGTGATGTTATCAGTGCCTAAGTTACATTTGCCATATTTCTCAGCAGTAAACCTAGATGTGGAA
TCAATGTTACTACCGTTTCATTAAACTGCCAACACAGGAAACAGCCTGGCAAAGATTCAAACCTGTAGGCCAAAAC
CGGCAAAAAGTGAATAGAGTCTCATGGGCCCAATGAGCATCCAGAAAAGGCACTTCAAAGAGGTGGGAAGGCAG
AGCATCAGGAGGGAACAGGGTGCCAGGCATCTGTGGAGAACGCTGCCGAAGAAAAAGGCTCGGGAGTCCAGCC
CCAAGGGAGCTGGAACAGCCTCACACACAGCAGGGGCTGAGAAGTTAGCGGGAACGCCATCTACACCAAGCCT
TCGTTTCAGCCAAGAGCATAAGGCAGCAGTCTCTGTGCTGACACCCTTCTCCAAGGGCGCGCTTCTACCTCCAGC
CCTGCAAAAGCCCTACCACAGGTGAGAGACAGATTGAAAGACAACACACACTATTTCCATTTAGAAAGTGCAA
GGCTAGAGTTACAAATATGAAGGCTTCTAAACCAATTTACATTCCAG

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FIGURE 1308

MTHRTPKVKKSPKFRKKSYSRLMLANRPPFSAAKSLINSPSQGAFSSLGDLSPQENPFLEVSAPSEHFIETTNI
KDTIARNALEENVFMENTNMPEVTISENTNYNHPPEADSAGTAFNLGPTVKQTETKWEYNNVGTDLSPEPKSFNY
PLLSLKFS

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FIGURE 1309

GGAAGCTCAGCAGTGTCCACTGTCGCCATTCTTGGCCATAGAAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAAACCCTCTCTGGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCCTGGGACTACTGCTCCTC
TTGTATTGCGCCACACACGCTCTCAAGTCTTCTGCTCAGATATGGATCTCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTGATCGTTTTTCGGAATAATTCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAAGTAAACTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCCCACCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAGATGGTACAAGTAACCG
GGACAGCTTTGACTGGATGACGATGGCCCCATTTCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCTCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAGAGAGTACCTCATTGAATTAAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAAACCTTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCACAGAGCCAAGTGACTG
AACACGCATTCCCAACTATATATCTACAGATGCATTCCATTTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTAACTCTGAATAATTGTACATAAAAT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTTTAAATGCTATGTGTTAATATTTTC
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAAGTAACCTTTTTTCATACCTGCCAGTTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTATATTCATTTTATACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTGTTGATTCTTC
ATTTTGTTTTCTGGTATAAAGTAGAGATAATGTGTAGTCACTTCTGATTTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGCTTTAAGTGTAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1310

MEIRLDTLSASLGRSSTLNDCNLEDKLAWEGEAYMWHHWKPFPENPLWTCCLDFQIAQVGPWDYCSCCIRHTRLK
SSCSDMDLLHSWRSSSFNGFDRFRNNSLSKPDDSTEAHEGDPTNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVSILKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTSPYDIDSLKIKKGDIIIDICTPMGMWTGMLNNKVGNFKFYVDVISEEEAAPKKI
KANRRSNSKKSKTLQEFLEIRHLQEYTSILLNGYETLEDLKD IKESH LIELNIENPDDRRRLLSAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1311

GGGGCAGACGTGGGACGGGAAGGACGGCTGCCGGGACTGGCGCGCGGGGACACTGGGCCGACGCGTGGAGTAGCG
GGGAGAGCGGGAAGCCTGAGGGGGCGGGGCCGGCGCAGGCCGTGGGTGCGGCACGAGGATGCCGGCGGGCGGGAC
AGCGCCCGTAGGCAGCCCCACGGGCAGGGCGCGCGGGCGGGCGGGCGGGCCAGAGGAGCTCCCGGCAT
GTCGCAAGGGCTCCCGGCCCGCGCAGCGTCTGCAGAGGAGCGTCGCGCGCGCCGGGAACCGAGCCGAGCCGCA
GCCGCAGCAGCAGAGCCCTGAGGATGATGACAGGAAGGTCCGAAGGAGAGAAAAAACCGAGTTGCTGCTCAGAG
AAGTCGGAAGAAGCAGACCCAGAAGGCTGACAAGCTCCATGAGGAATATGAGAGCCTGGAGCAAGAAAACACCAT
GCTGCGGAGAGAGATCGGGAAGCTGACAGAGGAGCTGAAGCACCTGACAGAGGCACTGAAGGAGCACGAGAAGAT
GTGCCCCGTGCTGCTCTGCCCTATGAACTTTGTGCCAGTGCCCTCCCCGGCCGGACCCTGTGGCCGGCTGCTTGCC
CCGATTGAAGCCGGGGACACTCCTCTGCCAGCAAGGAGCCTTGGTCATTTTCATACCTGGGAGGAAGGCTTTTCC
TTCACAATTGTATACAGGGGGCACCTGTGGCCAGGCCTCCTCCTGGGAGCTCCAGGACCAGCCAGCTGTGTTCCC
TGCAGACTGGGCTCAGCCCGACATCCAACAGGCGCCAAACTCACAGAGCCCTTGTGCAGATCCAGCATGGAGGCC
ACCCTCAGGAGTGACTTCTCATCCACCCTGGCAGCTAGTAGGTTCTGCTGTTATGCAGAGCCATTTCTCTAGAA
TTTGGATAATAAAGATGCTTATTGTCTCTCCCTTCTCCAGTTCTGGGAATTTACAGGCACAATACACTTCCTTTT
CCTGG

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FIGURE 1312

MSQGLPAAGSVLQRSVAAPGNQPQPQQQSPEDDDRKVRREKNRVAAQSRKKQTQKADKLHEEYESLEQENT
MLRREIGKLTEELKHLTEALKEHEKMCPLLCPMNFVPVPPRPDPVAGCLPR

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FIGURE 1313

CACAAGGACATGGACGTGGACATCCTGGCCCTGGTCAATGACACCGTGGGGACCATGATGACCTGTGCCTATGAC
GACCCCTACTGCGAAGTTGGTGTTCATCATCGGAACGGCACCAATGCGTGTACATGGAGGACATGAGCAACATT
GACCTGGTGGAGGGCGACGAGGGCAGGATGTGCATCAACACAGAGTGGGGGGCCTTCGGGGACGACGGGGCCCTG
GAGGACATTGCGACTGAGTTTCGACAGGGAGCTGGACCTCGGCTCTCTCAACCCAGGAAAGCAACTGTTTCGAGAAG
ATGATCAGTGGCCTGTACCTGGGGGAGCTTGTTCAGGCTTATCTTGCTGAAGATGGCCAAGGCTGGCCTCCTGTTT
GGTGGTGAGAAATCTTCAGCTCTCCACACTAAGGGCAAGATCGAAACACGGCACGTGGCTGCCATGGAGAAGTAA
AGAAGGCCCTTGCTAATAACAAGAGAGATCCTGGTGGACCTGGGTCTGGAACCGTCTGAGGCTGACTGCATTGCCGT
CCAGCATGTCTGTACCATCGTCTCCTTCGGCTCGGCCAATCTCTGTGCAGCAGCTCTGGCGGCCATCCTGACACG
CCTCCGGGAGAAACAAGAAGGTGGAACGGCTCCGGACCACAGTGGGCATGACGGCACCCCTCTACAAGATACACCC
TCAGTACCCAAAACGCCTGCACAAGGTGGTGGAGAACTGGTCCCAAGCTGTGATGTCCGCTTCTCCTGTGTCAGA
GAGTGGCAGCACCAAGGGGGCGCCATGGTGACCGGGTGGCCTCCCGCTGCAGGCCAGCGGAAGCAGATCGA
CAGGGTGCTGGCTTTGTTCCAGCTGACCCGAGAGCAGCTCGTGACGTGCAGGCCAAGATGCGGGCTGAGCTGGA
GTATGGGCTGAAGAAGAAGAGCCACGGGCTGGCCACGGTCAGGATGCTGCCACCTACGTCTCGGGCTGCCGGA
CGGCACAGAGAAAGGAAAGTTTCTCGCCCTGGATCTTGGGGGAACCAACTTCGGGGTCTCCTGGTGAAGATCAG
AAGTGGACGGAGGTGAGTGCGAATGTACAACAAGATCTTCGCCATCCCCCTGGAGATCATGCAGGGCACTGGTGA
GGAGCTCTTTGATCACATTGTGTCAGTGCATCGCCGACTTCTGGACTACATGGGCCTCAAGGGAGCCTCCCTACC
TTTGGGCTTCACATTCTCATTTCCTGCAGGCAGATGAGCATTGACAAGGGAACACTCATAGGGTGGACCAAGG
TTTCAAGGCCACTGACTGTGAAGGGGAGGACGTGGTGGACATGCTCAGGGAAGCCATCAAGAGGAGAAACGAGTT
TGACCTGGACATTGTTGCAGTCGTGAATGATACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCTAATTG
TGAGATTGGCCTGATTGCAGGAACAGGCAGCAACATGTGCTACATGGAGGACATGAGGAACATCGAGATGGTGGA
GGGGGTGAAGGGAAGATGTGCATCTGTTTTTCAATTTGCCTGTGGTTTGTGTTGCAGGTGTTGATAGTTGTTTT
AAGGATTGTTAGGTATAGGAAATCCAGTAAATTAATAAAAAAATTTTGAATTTCCAATAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1314

MDGTLYKIHPQYPKRLHKVVRKLVPSCDVRFLLSESGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLTREQLVD
VQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRVLLVKIRSGRRSVRMYNKIFAI
PLEIMQGTGEELFDHIVQCIADFLDYMGLKGASLPLGFTFSFPCROMSIDKGTLLIGWTKGFKATDCEGEDVVDML
REAIKRNEFDLDIVAVVNDTVGTMMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGGEKMCICFSFCLW
FVLQVLIVVLRIVRYRKSSKLIKKE

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FIGURE 1315

ACGCGGGGATTCTGTGTAATTCCTATCCACAGTCACCTTCTGTTCAATTTTAAATGAAAACCTATTGCTGTTATTTT
CTATTATGAGTTAACGGTGATGTGTGTTTTTAAATTTTGATACTTGCTCTCACCTAAAAATACCTTAAGAG
ACTTTTCCCCTGTTTTCTTTCTGCTTTCCAAGACTCCAGGAAAAACAGCTTCCATGGCACATTTTGACAGGGC
ACATCTAGAATGATTGCCGCAGAAAAGTTCTACGGAGCATAAAGAGTGTGCTGAACCATCAACAAGAAAGAACTTG
ATGAATTCCTTGAACAAAAGATAAGGTGTTTGAAAAACAAAGAAAGAGCTCCTGGAAGTTAACCAGCAATGG
GATCAGCAATTTAGAAGTATGAAAGAGTTATATGAAAGAAAGGTAGCAGAGCTGAAGACGAACTGGACGCCGCG
GAAAGATTCTCAGCACGCGGGAGAAGGATCCGCATCAGAGGCAGAGAAAGGACGACAGGCAGAGAGAGGACGAC
AGGCAGCGCGACCTGACCCGGGACCGGCTGCAGCGGGAGGAGAAGGAAAAGGAACGCCTAAATGAAGAATTACAT
GAATTGAAAGAAGAGAATAAACTTTTAAAGGGAAAAAATACTCTTGCGAACAAGGAAAAGGAACATTACGAATGT
GAAATAAACGCCCTCAATAAGGCTCTTCAGGATGCCTTGAATATCAAGTGTTCATTTTCCGAGGACTGTTTGAGG
AAGTCTCGAGTGGAATCTGCCATGAGGAGATGAGAACGAAATGGAAGTTCTGAAGCAGCAGGTCGAAATATAC
GAAGAAGACTTCAAAAAGGAACGATCGGATCGAGAGAGACTTAATCAAGAGAAAGAGGAGCTACAGCAAATTAAT
GAACTTCCCAATCCAGTTGAACAGGCTGAATTTCCAGATAAAAGCTTGTGAGATGGAGAAAGAAAACTAGAA
AAGCAATTAACAGATGTATTGCCACCCTGTAACCTGCGGCTTGTTTTCCACCTGCAAGATCCATGGGTACCA
ACAGGCCCTGGAGCTGTGCAGAAGCAACGGGAGCACCACAGACTGTGATGGGTATGCTCTTGACCAGCTTCCG
CCAGATGTACAACACAAGGCAAAATGGTTTATCCTCAGTAAAGAAAGTCCATCCGTAGAGTACACACTAACAGAG
AGAGACAACAGGCAACGAGGGAGCGTGAGGACCTCTTCTTTGTTTATACTGAGGCTTGTCTTGCCACAA
AGGCACATCATCTACCTGTTATTTGTGCTGGTCATGTTTTCTTTGGTATGAATACAGGAAAAGGCTTCTGAC
AGCTAAGATCCTGATCAAATTGGAGGAGCCAGTTATTATACAACCAATACAACTTCCAGTTTCTTGAAATGAG
ACTTGGCAGATGGATGATGCACGACTCCCTGAAAATCTCTTCAGCATATTGCTGTTGGATGCACAAAAATGATT
TATGATTAGGCAACTCAGTGTTTGTGCTGCAGGGATATTGTATGTTGATTTAAAGTGCATATGTGTGTGTGTGT
GTGTGTGTGTGTGTGTTTCTGGGGTAAAAATTTCTGCAGTTGTAAACGTTTAAACATTGCTCCCATTCTTCTTCC
ACAGGGCCTTAGTTCTTTAGCTATTTGACTACATATTGTTGACCTCAGTGATCCTAAACGTAGAAATTGAAGAGGT
GTATATACCTCGTTAAATTAAATAAGTGGTTCAATCTGAATAAGATGGTTAATTGGAAGCTATTCTTAGACAGA
TCATTTCTTTAAGATGGTGAGAAATTGTGCGCCTGCATCACAAGACTTGATTATGAAAGATAAAGTCTTGGGCTG
GGTGCAGTGGCTCATGCCATAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTTGAGGCCAGGAGTT
CTAGACCAGCCTGGCCAGCATGGTGAACCCCATCTCTACTATAAAATACAAAAATTAGCCAGGCTCGTGGCACAC
ACCTATAAACCCAGCTACTCAGGAGGCTTGAGGCGGGAGGATCACTTGAGCCCAGGGAGGCAGAGGTTGCTGTAA
GTTGAGATCGCCACTGCACTCCAGCCTGGGAAATAGAGTGAGCAAGACTCAGTGCCCCCTACCCACCCACTCCAC
ACCACCAAAAAAAAAAAAAAAAAAAAAAGGAAGACAAAGTCTGATGGGATGATGATGGCTATATGGCTATGCTG
TGTCATATATACTTACAGAAATATTTAGACATATGATTTATAGTTAAATCTGTGTTTTCTTCTCCTATGGAT
TTGATTAATTTTAAATGAAAACTTAATTCTGACTCCTCAAGCCAATTAATGAAAATGGAATTTATTTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1316

MAHFVQGTSRMIAAESSTEHECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAEL
KTKLDAAERFLSTREKDPHQQRKDDRQREDDRQRDLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANK
EKEHYECEIKRLNKALQDALNIKCSFSEDCLRKSERVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEK
EELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDCQW
YALDQLPPDVQHKANGLSSVKKVHP

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FIGURE 1317

CGGCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCC
CGGGCTCCGGTGGGGTCCCCACCCGGCCCTCGGGTCCCCGCCCCCTGCTCCCTGCCCATCCAGCCACGCGA
CCCTCTCGCGCGCGGAGGGGCGGTCTCGACGGCTACGGGAAGGTGCCAGCCGCCCCGGATGGGCATCGTGGA
GCCGGGTTCGGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGCGCCTGGCGCCGA
CCCGCAGCACCGCTACTTCTACCCGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGG
GTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCCGCGAGCCGCTTCTTGAGCCTACGCCTACCCGCGCG
ACCCAGGCGGGCGGCTTCCCCGGCGGGGCGAGTCTTCCCGCCGCCGCGGACGCCGAGGGCTACAGCCGGG
CGAGGGCTACGCCGCCCGGACCCGCGCGCCGGGCTCTACCCGGGGCGCGTGAGGACTACGCGCTACCCGCGGG
ACTGGAGGTGTGGGGAACTGAGGGTCGCGCTCAACAACCACTGTTGTGGTCCAAGTTTAAATCAGCACCAGAC
AGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCATTCTGTCTATTACTGTGGCCGGGCTGGAGCCAC
CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGACGGCAAGTGGGT
GCAGTGTGGAAGGCCGAGGGCAGCATGCCAGGAAACCGCTGTACGTCCACCCGGACTCCCCAACACAGGAGC
GCACTGGATGCGCCAGGAAGTTTCATTTGGGAACTAAAGTCAACAACAAGGGGGCGGTCCAACAATGTGAC
CCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC
AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTTCATTGCCGTGACTGCCTA
CCAGAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC
CATGTACACATCTGTTGACACCAGCATCCCTCCCCGCGCTGGACCCAACTGTCAATTCTTGGGGGAGATCACTA
CTCTCTCTCCTACCCAACCAAGTATCTGTTCACGCGCTTCTACCCGACCTTCTGGCCAGGCGAAGGATGT
GGTTCCCCAGGCTTACTGGCTGGGGGGCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAA
GCCTGCATTCTTGCCCTCTGCCCCGGGGCCACCATGTCTTACTACCGAGGCCAGGAGGTCTGGCACCTGGAGC
TGGCTGGCCTGTGGCACCCAGTACCCTCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCC
CATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGAT
TGCCCCCATCCGGCCGGAATCCAGTGATTCCAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTA
TCCTTCCAGTGGTGACAGCTCCTCCCTGCTGGGGCCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTA
TAAGTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGGTTGGAGGACACCGAC
TAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGG
GAAGTGGGGCTCAAGAAGGATTTTGGGGTTTACCAGATGCTTCTGGCCACGATGAAACCTGAGAGGGGTGTCC
CCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGCTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA
AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTGCATCTAGTGGGTGGGAGGGGTGAGGTGTGGGACATG
GGAGCAGGAGACTCCACTTCTTCTTTGTACAGTAACTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGA
TCCAAAAGAACAATAACACGTATGTTATAACCATCAGCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGG
ACAGCTGGCCTGGGCTCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGCTGGAAGGGGGGAATGGCCC
ACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTGTGTGTGGGTGTGTGTTTTCTTTTCTTTCTTTTATT
TTTTTTGAATGGGGGAGGCTATTTATTGTACTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCATCACTTTC
TGAAAATAAACATAAACTGTAAAAA

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FIGURE 1318

MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYYPEPGAQDADERRGGGSLGSPYPGGALVPAPPSRFLGAY
AYPPRPQAAGFPGAGESFPPFADAEGYQPGEGYAAPDPRAGLYPGPREYALPAGLEVSGKLRVALNNHLLWSKF
NQHQTEMIITKQGRMFPPFLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMPGNRLYVHPDS
PNTGAHWMRQEVSGKLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACNASNTHIFTFQETQFI
AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSSIPSPPGPNCQFLGGDHYSPLLPNQYPVPSRFYFDLPG
QAKDVVPQAYWLGAPRDHSYAEFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMGPASWFRP
MRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEA
EGQFYNYFPN

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FIGURE 1319

ACCGTCTTCCGCCGCACGTGGATTACAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTTCGGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTCAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACAGAAATACACAGAAATGGACTACGCCCAGCTGGTAACAAAGCAGCTTTCACTGTGAGCCTGGATCCAGG
GCCCCGGAGCAGTTCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCACC GCCCTCAAGAGAGG
TGTGGTGA CTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCCT
GAAGCTTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCTCT
GGAGAGAGCAGCTTTTTATTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAAGACCATCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAGTGTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAACCTCTGTCCC

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FIGURE 1320

MPKSKRDKKVSLTKTAKKGLELKQNLIEELRKCVDTYKYLFI FSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPGPLEQFPHSME
PQLRQLGLPTALKRGVVTL LSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQQMGDDL PES
ASESTEESDSEDD

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FIGURE 1321A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCTGAGGTGACAGCGCCTGCAACTGAAATTCAGCAGCGGGAGAAGATGACAAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATTCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCAGTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGTCTGTACTTCCAGGTATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCACCTGTAAGTGAAGGAAGTTTGAGTGATACAGACAACT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATCTGCAAGCAGACTGCGCACAAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAAATCTGATACTCAGCCTGAAGACCTTAACAGTGGAA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACTCA
CTCTGATTTCCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATCTCAATATTGTAATCTTTGGATA
AGTCAACAGAACAGACAAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAACT
ATCATCAGGATCCAAACTGCCTGAAGAAATTACAACCTAACAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGTTCAACCCTGAAACCGTTGAGT
ACTCTAATTCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGAACCAACTGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATCTTAAAGTTACAATCTAAGCAAGACCGTGAGACAACTAATG
AAAAATGAGAGTACTTCTGAATCAGCATTGTTAGAATACTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATACTCTGTATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAAAATAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAAAAAAT
ATTTAAGATCCCATTTCAAGTGTCCCTGAATGAGATTTTATTGCTAGTGGATACCACACATTTAAAGCGGTTTG
GGTTATGGAAGAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTGAGACCCCAATTAGAACACTCTGTATTAAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAACACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGATTAGAGCTTTCTTACCCGTTGTCTTGGGTTCCAGCATTTCCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTCTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGCAGAAGCAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTC
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAATAATGAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTGTAACGAAGTCACATTTTATAGTACTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACCTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAGAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTTGGAGAAGTGGT
TTCTCGTCATGTAATAAAGACCAAACGGGAAGATATTCGAGAGCTCATCTTGAACTTCATTTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAATAACTTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAATAATTTTATAAATATTTTCTAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAACTTACATGATCTGTAATCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGCAAAATTTGCTGACAGGTCACATCATATTGTAATCTATT
CTTTCAGCTCAAGCATGCAGTATGAATACTGTGATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1321B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTTCATAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCCTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAGGGTAAAATTTGAAACAAAAAATTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCACTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCTCATAACTTTAACAAAGAAAACCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACCTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTAAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTGTTGATTTTGGCACTATCTTTATATTATTAAATATATTTGTTGTTTGGATATTTATATAAAGATGGCTAT
AATTACATATTTTATTTCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTGTACATCTAAT
TTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTTGTGTAATTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTAAATTCATTTTCTTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAATACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1322

MDKRKLGRPPSSSEIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLOWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILTNLVGTGLGRKYIRTPPVTESGLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSESGSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNDVKYSDS
KVELTLISRKTKRRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFERPSSENYHQDPKLPEEITTKPTKSDFT
KLSSLNSQELTSLNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENEINTIEKPILRGHNEGNQSLISAEPV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLEPLITCESVQMSELCPYNPMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIISGELELSYPLSWVQAFPLFQN
LSSKESFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQSQAAQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKMKRRCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPVNFELPIHLEKWFPRHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1323

GGGGACTTCCGGAGACCTCACACAAGATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGA
TTGTGGAAGAGGAGGAACTAAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCACT
TGGGATGGACAAAACCCACCAAGATTCAGATTGAAGCTATTCCCTTTGGCCTTACAAGGTCGTGATATCATTGGGC
TTGCAGAACTGGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGC
GTTTGTGTTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTGGGGT
CCTCTATTGGAGTGCAGAGTGCTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCAAAAA
AACCACATATAATAATAGCAACTCCTGGTGCAGTATTGACCATTGGAAAAACGAAAGGTTTCAACTTGAGAG
CTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAGACAGAGGTTGACAAGATCC
TCAAAGTGATTCCCTCGAGATCGGAAAACATTCCCTCTCTGCCCACCATGACCAAGAAGTTCAAAAACCTTCAGC
GAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCCCTCTAAATACAGACAGTTGAAAAATTACAGCAATATT
ATATTTTATTCCCTCTAAATTCAAGGATACCTACCTGGTTTATATTCTAAATGAATTGGCTGGAAACTCCTTTA
TGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCTTTGCTACTGCGAAATCTTGGCTTCACTGCCATCC
CCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAGGATCCCTTAATAAGTTTAAAGCCAAGGCCGTTCCATT
TTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCTTA
CCCATTCCAAGGATTACATCCATCGAGTAGGTGGAACAGCTAGAGCTGGGCGCTCCGAAAGGCTATTACTTTTG
TCACACAGTATGATGTGGAACCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACAC
AGGATGATGAGGTTATGATGCTGACAGAACGCGTCTGCTGAAGCCCAAAGGTTTGCCCGAATGGAGTTAAGGGAGC
ATGGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTGAGGA
ACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTAAATCACTTTTATGAAGGCTCGAGTTCTGCTGTT
CTGTAAAAGAAAAATTGGAGAATGAAACCTGCTCCAACAGAGATCATGAGACTGAAATTGGTCAGAAATTGTGTCCA
GAATGTGCTCAGCTAATTCAGTATTCTTCCCCATTCTGGGTTGGAGTTTACTGCAGAGTAATTCCTTACAGTGCTG
ATGTCAAGACTGTTACTGTTCTTCGACTTTGATTCCCTTGCTCATGACATGAGTAGGGTGTGCTCTTCTGTCACTT
CACACAGACCTTTTGCCTTTTTTAGCTGCAAGTCAAGGACTAGGTTGATGATGCCCATGACCTGTAATTGTAAAG
AAGCTTGACATCTGCAAATGATATTTAAACCATCTTGGCTTGTGCTTTATTCAAATAATGTGAAACAATAAAT
TTAAATATTATTTTTTAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1324

MAAPEEHDSPTASQPIVEEEEETKTFKDLGVTDVLCEACDQLGWTKPTKIQIEAIPALQGRDIIGLAETGSGKT
GAFALPILNALLETQRLFALVLTPTRELAFOISEQFEALGSSIGVQSAVIVGGIDSMSQSLALAKKPHIIIATP
GRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPRDRKTFLEFSATMTKKVQKLQRAALKNPVK
CAVSSKYQTVEKLQYYIIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTORTALLLRNLGFTAIPLHGQMSQS
KRLGSLNKFKAARSILLATDVASRGLDIPHVDVVNFDIPTHSKDYIHRVGRTARAGRSGKAITFVTQYDVLEF
QRIEHLIGKKLPGFPTQDDEVMLTERVAEAQRFARMELREHGEKKKRSREDAGDNDDEGAIGVRNKVAGGKMK
KRKGR

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FIGURE 1325

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTCGGTCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTCTTGAAATGAGTCACAGGTCAACAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCACTGCTGTCCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAACTTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGTTTTG
TGACATGTCTCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTTCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGACCTGCTGGGGTTTGCCTCCGAGAGTGCCC
CTCGGTCTCTGGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCAATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCCTCTCTGTATAATGCTGTAC
AATTGAAGACGTTCAGAAGCTGGCCGCCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTACCTTAATTCTGACTTGAAGCAATTTAAGAAATCTTGTGCTTTT
CTAACAAATTTCCCGCTATTTTGCCCTTGTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGTGGACTTAAT
AATGCAAGTTGCGATTAAATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCCTGGGTTGAGCGGCTGTTGATTCAAGGTCAACATTGACCATTGGAGGAGT
GGTTTAAAGAGTGCCAGGCGAAGGGCAAACGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCCTTCTCTTTTAAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCTTAAACATCTAAAAA

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FIGURE 1326

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVLNLI GLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVSGGIRASLYNAV TIEDVQKLA AFMKKFLEMHQL

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FIGURE 1327

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCCGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGGGAGC
GGGAAGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACCACCCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCAATTTCTTGTGGAGTATCATCTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGAATTTTGGCCT
GTGCTTCAATTTCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCT
TCTTTGGTGAACCCCTAATTGGAAAAGCAATAATAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTCATTGGTGTCTCCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGCTCTGGATGTTTGAAGAGTTGGTCGTGTGTCATGGTGTGTTACTTTCATCCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAAGTCTCAGAGGAGAAAACATAAAGTAGAGAAAAGTTTTAA
ACTGCAGAAAATGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCCTTTTC
CAACCTGTATCAATTTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACCTTGCAGTACATACTTTTTCTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAAATGTGATGTTTCAGC
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTTCAAAGGCCACATGATACAATTAGAGAATTCCCAC
CGCACAAAAAAGTTCCCTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTACAAAATGATTGCTTTGTTTTT
CTAAGTCATCAAAATGTATATAAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCTGCCCCAACCTTCCTCTCCCATCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGAAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGATTTTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCTG
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAAGTGTTCATTTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAA

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FIGURE 1328

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEKTK

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FIGURE 1329

CTGTGAGTGACACACGCTGAGTGGGGTGAAGGGAATGCTGGTGAATTTCAATTTGAGGTGTGGGTGCTGTTAG
TCACTCTGTCTCTTGCCATTGCCAAGCACAAGCAATCTTCCTTCACCAAAAGTTGTTACCCAAGGGGAACATTGT
CCCAAGCTGTTGACGCTCTCTATATCAAAGCAGCATGGCTCAAAGCAACGATTCCAGAAGACCGCATAAAAAATA
TACGATTATTAAGAAAGAAAACAAAAAGCAGTTTATGAAAACTGTCAATTTCAAGAACAGCTTCTGTCCTTCT
TCATGGAAGACGTTTTTGGTCAACTGCAATTGCAAGGCTGCAAGAAAATACGCTTTGTGGAGGACTTTCATAGCC
TTAGGCAGAAATTGAGCCACTGTATTTCTGTGCTTCATCAGCTAGAGAGATGAAATCCATTACCAGGATGAAAA
GAATATTTTATAGGATTGGAACAAAGGAATCTACAAAGCCATCAGTGAACCTGGATATTCTTCTTCTGATTGA
AAAAATTATTGGAAGCAGTCAGTAAACCAAAGCCAAGTACATTGATTTTACAGTTATTTTGAATACAATAAGA
ACTGCTAGAAATATGTTTATAACAGTCTATTTCTTTTAAAACTTTTAAACATAATACTGACGGCATGTTAGGTG
ATTCAGAATAGACAAGAAGGATTTAGTAAATTAACGTTTTGGATATAAGTTGTCACCTAATTTGCACATTTTCTGT
GTTTTCAAATAATGTTTCCATTCTGAACATGTTTTGTCAATCACAAGTACATTGTGTCACTTAATTTAAAGTAT
GTAACCTGAATTAACCTCGTGAATATTTGTGTGTGGAGTGGGATGTGGGGGGTGGAGGGGGAATGACAGATTTCT
GGAATGCAATGTAATGTTACTGAGACTTAAATAGATGTTATGTATATGATTGCTGTTTAAAGTGTGAAAAATTG
TTAATTATGCCCAGTGTGAACCTAGTACTTAACACATTTTGATTTTAAATAAATGAGTTTCCTTCTC

1468/2682
FIGURE 1330

MLVNFILRCGLLLVTLSLAIAKHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDRIKNIRLLKKKTKKQF
MKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSRLRQKLSHCISCASSAREMKSITRMKRIFYRIGNKGIY
KAISELDILLSWIKKLLESSQ

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FIGURE 1331

TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGG
CCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCT
TGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAATTCCAGCAGCCCTATA
TCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTTCGTCTCATTGGGG
AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAG
AAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCA
ACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAGCTGAAGGACACAG
TGAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATG
CCTGCATTTGACCAGAGCAAAGCTGAAAAATGAATAACTAACCCCTTTCCTGCTAGAAATAACAATTAGATGC
CCCAAAGCGATTTTT

1470/2682
FIGURE 1332

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLFMSLRNACI

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FIGURE 1333

TTTACTTCCTGCGTCCCCGGACGCCGTATGTGGAAAGGCGAACCCCTGAGTGGAGGATGTTCCCGCTGCCTAAAGA
ATGATTGACTGTGACTGCACTTTTGTGAGATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAA
GAAGACAGCCTGGAAGACTCAAACCTTTTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGACGGACAGGCGAA
CCACCTAGTGCCGTCGAAGAAGAAGGAATACCTAACGAAACAGACATAGAAATCATGCCAGAAATCCCGGAAACT
CTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTTTATT
CTGAACCTACATCATGCCCGTTTCTGATGAGTGGGAGACAGAGCATCTGCGTGAAAAGCAGAGAATTGAATCTAGAA
GGAACGAATCTAGACAAACTTGCAATGGGCCCTCAACATGACAAAAATACTCAGTCCGTTACTACCTGTGGAAGGA
CCCAATTTGCCTGATTTTACACCCAGAGGCCGTTTCTGCTGTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAA
AAACCTACAAGGCAGACCATCATGACTACGGAGACACTGAAGAAAATTCACATTGATAGGCAGTTTTCAGCGAT
GTGATTGCAGATAACCATTAGGAGTTGCAAGATTTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAG
AGGGAAAACAAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAA
AAACAGCTAATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAG
GACCAACTGCAAGAGATGAAGGCAAAATCCAACCTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATT
GCCCAGACCCAGAAAAAGTGTAAACAGAACAGAGGAACCTTGGTGGAAGATTTTGAAGAACTCAGGATGAAAACC
GAAGAAGAGGCCCGGACTCATAACAGAGATTGAATGTTCCTTAGAAAGGAGCAGCAGAAACTTGAGGAGAGGCTG
GAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAATGCTCTCAAAGCCACAAAG
GCCAGTGTCTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGATCGT
ATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAAACAGGATCTCTTGGAAATTAAGAGCGTTATAAGCTCCAGGCC
TGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGAT
TCAAAAGGCAAGGTAAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAGTGACCAAGTTCTCTTTTGTGTTTTCTG
CTGGTATTCTGGAGGTGGGAAGGACTTGGAGAGAGTTAAGAAACACCTGGTACCTCAAAGATGACTCATCTACAG
GTTGTTTTCTATTGAGACTTTCCAGGGAAGCCTGATTTCACTTTGCCTGTTAATTTCACTCTGCCTGTTAGGTG
GGTTTTCAAACCTGATTTAGGATTACACCATGACTTAGGGCTTCTCATACCTTGCTGGGAAGAAGTTTTCTAG
TAGTCTGTGAAGATTCATTCTTCTGCTCTTTCTCAGCAGAACAAAGGAGTTCACTGGCTTAGCTACAGTGACG
CATTGAACTTGAGTAATCTCTGTAATGTCAGATTTTGATTTTACCCAATTTGTCTGTAGTAAAAAACTCTTAT
GAGCAAAAGTATTCACTAGGAATTACAATATGATGTTATTAGCTGTCCAGCATAATATATACACAGCAAAAGTTT
AATAAATGTTGGTTCTGCCTGCCTTTTAAAAA

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FIGURE 1334

MEEDSLEDNLFPKVHSEMTVSATGEPPSAVEEEGIPNETDIEIMPEIPETLEPLSLPDVLRISAVLEDTTDQL
FILNYIMPVQYDGRQSICVKSRELNLEGTNLDKGLAMGLNMTKILSPLLPVEGPNLPDFTPRGRFAVEFNKMQDLV
FKKPTRQTIMTTETLKKIHIDRQFFSDVIADTIKELQDSATYNSSLQALSKERENKMHFYDIIAREEKGRKQIIS
LQKQLINVKKEWQFEVQSQNEYIANLKDQLQEMKAKSNLENRYMKTINTELQIAQTQKKCNRTEELLVEDFEKLRM
KTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMQNELNALKATKASVLAHLQDLAKMIREYEQVIE
DRIEKERSKKKVKQDLLELKSIVIKLQAWWRGTMIRREIGGFKMPKDKVDSKDSKGKGKDKRRGKKK

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FIGURE 1335

GTCATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCAG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCCTCGGGAC
TTCCAGACACTGGAAACTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTGCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGCCCTTGAACATTCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAAGTCTGCTCCGGA
AACCAGGTTTCGTGGCTATCCCACTCTTCTGCTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCGGTGCTGGCAGCTGAGCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCCATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCAATTGTAAGACTCTG
GCTCTACTTGGGAGGAAGTCTCTAAAAAGGAATTCCCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGC
ACTCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCTGAGCCAGCGAAAGACGAA
CTTTAGGAACACAGTTGGAGGTACCTCTCCTGCCAGCTCCCGCACCTGCGTTTAGGAGTTCAGTCCACAGA
GGCCACTGGGTTCCCACTGGTGGCTGTTTCAGAAAGCAGAACATACTAAGCGTGAGGTATCTTCTTTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAATGTGTAAGTCACTGTTCAAGTCACTGTTTTCAGTG
GCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCTTTGAGACTAAAATAGCGTTGAGGGAA
ATGAAATTGCTGGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAGCACATCCAAAGCATAGTTT
ACCTGCCACGAGTTCTGGAAAGGTGGCTTGTGGCAGTATTGACGTTTCTCTGATCTTAAGGTCACAGTTGACT
CAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTCTGGAAGATACCTTCACGGC
CGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGTGATGAAAGCAGCGTTACTT
CTGACCGTGCTGAGTAAGAGAAATGCTGATGCCATACTTTATGTGTGATACTTGTCAAATCAGTTACTGTTCA
GGGATCCTTCTGTTTCTCACGGGTGAAACATGTCTTTAGTTCTCTATGTTAACACGAAGCCAGAGCCACATG
AACTGTTGGATGTCTTCTTAGAAAGGTTAGGCATGAAAATTCCACGAGGCTCATTCTCAGTATCTCATTAAGT
CATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTTTCCAGGCCCTGGGTATCCAG
GGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATTCTGTTTCTCAGTAGTCCTT
TAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAAGAATGGGATGCATTTGATCT
CAAGACCAAAGACAGATGTCAGTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTGGCAGCTGTTGATGCCAGTGT
CCTCTAACTCATGCTGTCCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAGCACATACAGGCTTAAGCTCT
AAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCTTTGCATCCAACACTCTTCAC
CCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAGGAATCTTAGAAACAAGACCA
CTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGCCTTAAAGGAAATCTTTATTA
ATCACGTATGGTTCACAGATAATTCTTTTTTAAAAAAACCCAACTCCTAGAGAAGCACAACTGTCAAGAGTCT
TGTAACACAACTTCAGCTTGCATCACGAGTCTGTATTCCAAGAAAATCAAAGTGGTACAATTTGTTGTTA
CACTATGATACTTTCTAAATAAACTCTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAC

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FIGURE 1336

MEDAKVYVAKVDCTAHS DVC SAQGV RGYPTLKL FKPGQEAVKYQGPRDFQTL ENWMLQTLNEEPVTPEPEVEPPS
APELKQGLYEL SASNFELHVAQGDHFIKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQ
VRGYPTLLWFRDGKKVDQYKGKRDLES LREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
DTIAEGITFIKFYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICSKYSVRGYPTLLLFRGGKKV
SEHSGGRDLD SLHRFVLSQAKDEL

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FIGURE 1337

GTCAAGATGCGCGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC
AGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTTCATGCCAGTG
GGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAAT
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG
CCTCATAATCTGCTAACGGACAGCGGCGGTTTTCCAGATGGTGTCTGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGAGAAATCCGTGCAGATCCAGAAT
GCGCTGGGCTCGGACATCATATGCAGCTGGACGAGCTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC
GCCATTATCCAGGGTGGGCTGGACGAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGAGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT
GGATGTGACATGTTGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAAC
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGACCTGCCCCACGTGCCAA
AAGCACAGCCGCGCCTTCCCTGCACGCACTGCTGCACAGTGACAACACGCGCGCTGCACCACTCACGGTCCAC
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG
CGGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTCTGTG
GGAATCACACTTGGCTGACCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGCTGGAAGATACTGA
AGGATTCTTTTTTGAAGGTTTTTTTTTATTGTAACCT

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FIGURE 1338

MAGAATQASLESAPRIMRLVAECSRSRARAGELWLPHGTVATPVFMPVGTQATMKGITTEQLDALGCRICLGNTY
HLGLRPGPELIQKANGHLHGFMNWPNNLLTDSGGFQMVSLVSLSEVTEEGVRFRSPYDGNETLLSPEKSVQIQNAL
GSDIIMQLDDVVSSTVIGPRVEEAMYRSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGF
AIGGLSGGESKSQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQ
LRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQLQLMSAVRTSIVEKRFPDFVRD
FMGAMYGDPTLCPTWATDALASVGITLG

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FIGURE 1339

ATGGCCCTGCGCAAGGAACTGCTCAAGTCCATCTGGTACGCCCTTTACCGCGCTGGACGTGGAGAAGAGTGGCAAA
GTCTCCAAGTCCCAGCTCAAGGTGCTGTCCCACAACCTGTACACGGTCCTGCACATCCCCCATGACCCCGTGGCC
CTGGAGGAACACTTCCGAGATGATGATGACGGCCCTGTGTCCAGCCAGGGATACATGCCCTACCTCAACAAGTAC
ATCCTGGACAAGGTGGAGGAGGGGGCTTTTGTTAAAGAGCACTTTGATGAGCTGTGCTGGACGCTGACGGCCAAG
AAGAACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGATGCCTTCCGCCCTCTGGTGCCTCTTC
AACTTCCTGTCTGAGGACAAGTACCCTCTGATCATGGTTCCTGATGAGGTGGAATACCTGCTGAAAAAGGTACTC
AGCAGCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCCAGGAGGCCAGGTGGCCCAGACC
ACCGGGGGGCTCAGCGTCTGGCAGTTCCCTGGAGCTCTTCAATTGGGGCCGCTGCCTGCGGGGCTGGGGCCGGAC
ACCTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCATCCAAGATGTCCTGAAGCAGGGCTACCTGTGGAAG
CGAGGGCACCTGAGAAGAACTGGGCCGAACGCTGGTTCCAGCTGCAGCCCAGCTGCCTCTGTACTTTGGGAGT
GAAGAGTGCAAAGAGAAAAGGGGCATTATCCCGCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCGCGAC
GGAAAGCGCTGCATGTTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCTCAGACACGCGCCAGCGC
CAGGAGTGGACAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTG
AAGCAGAAACGGCGCGAGCAGCGGGAGCAGCGGGAGCGGGCGCGGGCGGCCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGGCCGAG
CGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGAGCCAGCACCCGAGCTGCAGCAGGCGCTCGAGGGCCAAGT
CGCGAGGCGGAGCAGGCCCGGGCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAGGCTGCCCGGCAGCGG
CAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGTTGAGGAGGCCCTGCAACTAGAGGTGAAAGCTCGGCGA
GATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGAAGAGAAGCTGAAGCAGTTGATGCAG
CTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAGAAGGAAGAGCTGCAGCAGGAGATGGCACAG
CAGAGCCGCTCCCTGCAGCAGGCCAGCAGCAGCTGGAGGAGGTGCGGCAGAACCGGCAGAGGGCTGACGAGGAT
GTGGAGGCTGCCCAGAGAAAAGTGCGCCAGGCCAGCACCAACGTGAAACACTGGAATGTCCAGATGAACCGGCTG
ATGCATCCAATTGAGCCTGGAGATAAGCGTCCGGTCACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTCTGCTT
GCCACCGTGACTCCTCCCTAAAGCGCCTGACCCGCTGGGGATCCCAGGGCAACAGGACCCCTCGCCCAACAGC
AATGAGCAGCAGAAGTCCCTCAATGGTGGGGATGAGGCTCCTGCCCGGCTTCCACCCCTCAGGAAGATAAACTG
GATCCAGCACCAGAAAATTAGA

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FIGURE 1340

MALRKELLKSIWYAFTALDVEKSGKVSQKVL SHNLYTVLHIPHDPVALEEHFRDDDDGPVSSQGYMPYLNKY
ILDKVEEGAFVKEHFDELCWTLTAKKNYRADSNNGSMLSNDQAFRLWCLFNFLSEDKYPLIMVPDEVEYLLKKVL
SSMSLEVSLGELEELLAQEAQVAQTTGGLSVWQFLELFNSGRCLRGVGRDTLSMAIHEVYQELIQDVLKQGYLWK
RGHLRRNWAERWFQLQPSCLCYFGSEECKEKRGIIPDLAHCCVEVLPDRDGKRCMFCVKTNRTYEMSASDTRQR
QEWTAAIQMAIRLQAEKTSLHKDLKQKRREQREQRERRRAAKEEELLRLQQLQEEKERKLQELELLQEAQRQAE
RLLQEEEEERRRSQHRELQQALEGQLREAEQARASMQAEMELKEEEAARQRQRIKELEEMQORLQEALQLEVKARR
DEESVRIAQTRLLEEEEEKLKQLMQLKEEQERYIERAQQEKEELQQEMAQQSRSIQQAAQQQLEEVQRNRQRADED
VEAAQRKLQASTNVKHWNVQMNRLMHP IEPGDKRPVTSSSFSGFQPPLLAHRDSSLKRLTRWGSQGNRTPSPNS
NEQQKSLNGGDEAPAPASTPQEDKLDPAPE

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FIGURE 1342

MACLGFORHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIA SFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYLIGINGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTPECEKEQFQPYFIPIN

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FIGURE 1343

ATGCGGCCTCAGCAGCGCGAGGTGCTGCGGCGCTGCGTAGAAGTATCAATCAGCCGGTTGCTTTTGTGAGAAGA
ATTCCTTGGA CTGCGGCGTCGAGTCAGCTGAAAGAACA CTTTGCACAGTTCGGCCATGTCAGAAGGTGCATTTTA
CCTTTTGACAAGGAGACTGGCTTTTACAGAGGTTTGGGTTGGGTT CAGTTTCTTCAGAAGAAGGACTTCGGAAT
GCACTACAACAGGAAAATCATATTATAGATGGAGTAAAGGTCCAGGTT CACACTAGAAGGCCAAA ACTTCGCAA
ACATCTGATGATGAAAAGAAAGATTTT TGA

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FIGURE 1344

MAASAARGAAALRRSINQPVAFVRRIPWTAASSQLKEHFAQFGHVRCILPFDKETGFRGLGWVQFSSEGLRN
ALQQENHIIDGVKVQVHTRRPKLPQTSDDDEKKDF

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FIGURE 1345

CCTGGGCCAGCATGGCGGCGCCCATGTAACCCGGTCCGTGCCGCAAAGCGAACGGCGGGCCGCGGCGGGGCCCCG
CGGGGGTTAGAGGTCACCAATGCTGAGGGTCGCGTGGAGGACGCTGAGTTTGATTTCGGACCCGGGCAGTTACCCAG
GTCCTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTTCAACCAGTGGGGCCTGCAGCCTCGAAGT
CTCCTCCTCCAGGCCGCGCGCGGATATGTCGTCCGGAACCAGCCCAGTCTAGGCTGGATGATGACCCACCTCCT
TCTACGCTGCTCAAAGACTACCAGAATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGTCT
TTGGAAATGGCCAACAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCAAACCCA
GAGGACACCAGATCCCTGGAGGCTCGAATTATTGCCITTGTCTGTCAAGATCCGCAGTTATGAAGAACACTTGGAG
AAACATCGAAAGGACAAAGCCCAAAACGCTATCTGCTAATGAGCATTGACCAGAGGAAAAAGATGCTCAAAAAC
CTCCGTAACACCAACTATGATGTCTTTGAGAAGATATGCTGGGGGCTGGGAATTGAGTACACCTTCCCCCTCTG
TATTACCGAAGAGCCCACCGCGATTTCGTGACCAAGAAGGCTCTGTGCATTTCGGGTTTTCCAGGAGACTCAAAG
CTGAAGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCCAAAAACAAGCAAAGCGGAGGAACCCAGACAGC
CCTGCCAAAGCCATACCAAAGACACTCAAAGACAGCCAATTAAATTCTGTTCAATCATTAAAAAAA

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FIGURE 1346

MLRVAWRTLSLIRTRAVTQVLVPGLPGGGS AKFPFNQWGLQPRSLLLQAARGYVVRKPAQSRLDDDDPPPSTLLKD
YQNVPGIEKVDDVVKRLLSLEMANKKEMLIKQEQFMKKIVANPEDTRSLEARIIALSVKIRS YEEHLEKHRKDK
AHKRYLLMSIDQRKKMLKNLRNTNYDVFEKICWGLGIEYTFPPLYRRARRRFVTKKALCIRVFQETQKLKRRR
ALKAAAAAQKQAKRRNPDSPAKAIPKTLKDSQ

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FIGURE 1347

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCTTGGTGTCTGTGCCCACCACATCATCCCTACGGGC
TCTGTGGTCATCCCTCTCCCTGCTGCAATGTTCTTTGTTTCCAAGAGAATTCCTGAGAACCGAGTGGTCAGCTAC
CAGCTGTCCAGCAGGAGCACATGCCTCAAGGCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGC
GACCCCAAGCAGGAGTGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAACACCTGCTTAA

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FIGURE 1348

MAGLMTIIVTSLFLGVCAHHIIP TGSVVIPSPCCMFFVSKRIPENRVVSYQLSSRSTCLKAGVIFTTKKGQQFCG
DPKQEWVQRYMKNLDAKQKKASPRARAVAVKGPVQRYPGNQTTTC

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FIGURE 1349A

GGGGGCAGAAAAGGGGGCGGCGGACTCGGCTTGTGTGTGTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCC
GCAGTCCTGCCAGCTGTCCGACGATGTCTGCTCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAATAACAACA
ACTGCGAGGAAAATGAGCAGTCTCTGCCCCGCCGCCGCCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACA
GCAGCAATGGCAATGATAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACA
ATGGAGACATGGAGAAGATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACT
GTGACAGCCCTTCGCCACAAGAAGATGGGCAGATCATGTTTGTGTGGAAATGCACACCAGCAGGGACCATAGCT
CTCAGTCAGAAGAAGAAGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCAGGACTGGGTATCAG
ACTGGTCCAGTAGACCCGAAAACATTCCACCCAGGAGTTCCACTTCAGACACCCCTAAACGTTCTGTGTCTTTAA
GCATGAGGAAAAGTGGAGCCATGAAGAAAGGGGTATTCTCCGAGAATTTCTGAAGGTGTTTCATTCCATCTC
TCTTCTTTCTCATGTTTTTGGCTTTGGGGCTAGGCATCTATATTGGAAGCGACTGAGCACACCCTTCGCCAGCA
CCTACTGAGGGAAGGAAAAGCCCTGGAAATGCGTGTGACCTGTGAAGTGGTGTATTGTACAGTAGCTTATTT
GAACTTGAGACCATTGTAAGCATGACCCAACCTACCACCCTGTTTTACATATCCAATTCCAGTAACCTCTCAAAT
TCAATATTTTATTCAAACCTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTTGGCCTGAAGACATTTTAGAAT
TTCCTAACAGAGTTTACTGTTGTTTAGAAATTTGCAAGGGCTTCTTTCCGCAAATGCCACCAGCAGATTATAAT
TTTGTGAGCAATGCTATTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTGATGTTTAAATTTTACTC
TTGCAACATAACTACCATCTCTCTCTTAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTA
GTTGTTTTTTTTTCCCCCAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAGAAAGAAAACAAAAC
AAAAAAGGCAAGGCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAGCTTTGGAGCCA
CTTTTTTGTCTAAGCCTCCTAATAGCGTCTTTTAAATTTATAGGAGGCAAACTGTATAAATGATAGGTATGAAATA
GAATAAGAAGTAAAATACATCAGCAGATTTTCTACTAGTATGTTGTAATGCTGTCTTTTCTATGGTGTAGAATC
TTTCTTTCTGATAAGGAACGTCTCAGGCTTAGAAATATATGAAATTGCTTTTTTGGAGTTTTTGGCGTGTGTGTTG
ATATTTTTTACGATAAATTAGCTGCATGTGAATTTTTCATGACCTTCTTTACATTTTTTATTTTTTATTTCTTTAT
TTTTTTTTCTCTAAGAAGAGGCTTTGGAATGAGTTCCAATTTGTGATGTTAATACAGGCTTCTTGTTTTAGGAAG
CATCACCTATACTCTGAAGCCTTTAAACTCTGAAGAGAATTGTTTCAGAGTTATTCCAAGCACTTGTGCAACTTG
GAAAAACAGACTTGGGTGTGGGAACAGTTGACAGCGTTCTGAAAAGATGCCATTTGTTCTCTGATCTCTCA
CTGAATAATGTTTACTGTACAGTCTTCCCAAGGTGATTCTGCGACTGCAGGCACCTGGTCATTTTCTCATGTAGC
TGTCTTTTTCAGTTATGGTAACTCTTAAAGTTTCAAGCACTCAACAGATTCTTTCAGTGATATACTTGTTCGTTT
ATTTCTAAAATGTGAAGCTTTAGGACCAAATTGTTAGAAAGCATCAGGATGACCAGTTATCTCGAGTAGATTTTC
TTGGATTTTCAAGCATCTAGCATGACTCTGAAGGATACCACATGTTTATATATAAATAATTACTGTTTATGATA
TAGACATTGATATTGACTATTTAGAGAACCGTTGTTAATTTTAAACTAGCAATCTATAAAGTGCACCAGGTCAA
CTTGAATAAAAAACTATGACAGACAGGTTTGCCAGTTTGAGAACTAACTCTTTTCTCACATCAACATTGTGA
AAATTGATGTGTTATAGTGGAATAACATATAGATTAAACAAAATTTTATCTTTTTTCAAGAATATAGCTGGC
TATCTTTAAGAAAGATGATATATCCTAGTTTTGAAAGTAATTTCTTTTTTCTTTCTAGCATTGATGTCTAAAT
AATTTTGGACATCTTTTTCTAGACCATGTTTCTGTCTTACTCTTAAACCTGGTAACACTTGATTGTCCTTCTAT
AACCTATTTATTTCAAGTGTTTCATATTTGAATTTCTTTGGGAAGAAAGTAAATCTGATGGCTCACTGATTTTGA
AAAGCCTGAATAAAATGGAAGACTGGAAAGTTAGGAGAACTGACTAGCTAACTGCTACAGTATGCAATTTCT
ATTACAATTGGTATTACAGGGGGGAAAAGTAAAATTACACTTTACCTGAAAGTGACTTCTTACAGCTAGTGCATT
GTGCTCTTTCCAAGTTCAGCAGCAGTTCTATCAGTGGTGCCACTGAAACTGGGTATATTTATGATTTCTTTTCAGC
GTTAAAAAGAAACATAGTGTGCCCCTTTTCTTAAAGCATCAGTGAAATTATGGAAAATTACTTAAACGTGAAT
ACATCATCACAGTAGAATTTATTATGAGAGCATGTAGTATGTATCTGTAGCCCTAACACATGGGATGAACGTTTT
ACTGCTACACCCAGATTTGTGTTGAACGAAAACATTGGGTTTGGAAAGGAGAATTCAACAATTAATAGTTGAAA
TTGTGAGGTTAATGTTTAAAAGCTTTACACCTGTTTACAATTTGGGGACAAAAGGCAGGCTTCATTTTTTCTATA
TGTTTGATGAAAACCTGGCTCAAGATGTTTGTAAATAGAACTAAGAGCAAACTGCACAACTTGCACATTGGAAG
GTGCAACAAGTTCCCGTGATTGCAGTAAAAATATTTACTATTCTAAAAAATGAGAATTGAAGACTTAGCCAGTC
AGATAAGTTTTTTCATGAACCCGTTGTGGAAATTTTGAATTAAGTGAAGCTTATGCAATCTTCTATC
TATTTTAGTTAGCACTTTGTATCGTTATATACAGTTTACAATACATGTATAACTTGTAGCTATAACATTTTGTG
CCATTAAAGCTCTCACAAAACCTTTCTGTGTCAGTATATCATTTTTCTGTGCGACCTGTTGCCCTGGGAGTTTCAGG
CGATGAGGCCTCTCGCTACACACAGCCTTCCAGTCATCTGGCTTCCCCAGCAGTGGAGTTCTTAACAGTGCTC

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FIGURE 1349B

AGGGTGTGAACGGTGTTCGTGTTGGGACAGTCACCGCAGTGTGAGCATTCTGAGTGCCTCGGGACTGTGGCATT
AGAGCATTTCCTCCAGGTAGTGGCAGGAGGGCGCTCACGGGAGGAGTGCTCAGGAAGTACAGGAGAGAAGA
GTGTGCCCTGATGGAAATGACAGTGGGACACCAGTGAAAGTGGATCCAGAAGGAAGTGAAGTTCACGTGCCTG
GAAAACAGGATGGATACAGAGGAACTGAAAAATGTAGGTTAGTACTGAACCTAATTGAAATGTGTGTGCCCTCC
CAGGGGTCACACTTCATCATATAGTTAGCTGGGTTTACTTCTTTTAAACCAGGAGGTGATTAAAGATGTAAATT
TAGACAGTCAAGCCATCTGGTGAGAGAGTACCAGAGGAGATCAATCAGTTCTCTAGGCGAGGAGCTAGGGCCTGT
CCTGGGCTGTACCCCTGAGGTTGGCAGTGGTGGGCCAGGATACGTATGAGAAACAAAGCGGAAGTAACTGGTCA
GAAAGTGAAGTACTAGAGACGAAGGCGTGTGTATTCTTTGTGTGTGTGGCCCGTAAACATGGGTTGATCCATTAG
TTAAAGGAGGACAGGAGAAGAAATGGGGTGGTAGGAGCAAGAGGGAGGATTTCAGTTTTGAGTGCCTTGAACAT
GAAATGTCTGAGGGCCTTCTGATTGGACACTTACTCC

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FIGURE 1350

GQKRGRRTRLVLLPECRRRSCCRSPASCPTMSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNS
SNGNDNGNGKNGGLEHVPSSSSIHNGDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSS
QSEEEVVEGEKEVEALKKSADWSDWSSRPENIPPKEFHFRHPKRSVLSMRKSGAMKKGIFSAEFLKVFIPSL
FLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1351

GC GGCGGACTCGGCTTGTTGTGTTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCCGCAGTCCTGCCAGCTG
TCCGACGATGTCGTCCTCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAACAACAACACTGCGAGGAAAAATGA
GCAGTCTCTGCCCCCGCCGGCCGGCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA
TAA TGGAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACAATGGAGACATGGAGAA
GATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACTGTGACAGCCCTTCGCC
ACAAGAAGATGGGCAGATCATGTTTGATGTGGAATGCACACCAGCAGGGACCATAGCTCTCAGTCAGAAGAAGA
AGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCGGACTGGGTATCAGACTGGTCCAGTAGACC
CGAAAACATTCCACCCAAGGAGTTCACCTTCAGACACCCTAAACGTTCTGTGTCTTTAAGCATGAGGAAAAGTGG
AGCCATGAAGAAAGGGGTATTTTCTCCGCAGAATTTCTGAAGGTGTTTCATTCCATCTCTCTTCTTCTCATGT
TTTGGCTTTGGGGCTAGGCATCTATATTGGAAGCGACTGAGCACACCCTCTGCCAGCACCTACTGAGGGAAAGG
AAAAGCCCCGTGGAATGCGTGTGACCTGTGAAGTGGTGTATTGTCACAGTAGCTTATTTGAACCTTGAGACCATTG
TAAGCATGACCCAACCTACCACCCTGTTTTTACATATCCAATTCCAGTAACCCTCAAATTCATATTTTATTCAA
ACTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTGGCCTGAAGACATTTTAGAATTCCTAACAGAGTTTA
CTGTTGTTTAGAAATTTGCAAGGGCTTCTTTCCGCAAATGCCACCAGCAGATTATAATTTGTCGGCAATGCTA
TTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTCATGGTATAAATTTTACTCTTCCAACATAACTACC
ATCTCTCTCTTAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTAGTTGTTTTTTTTCCCC
CAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTAATTAAGAAAAACAAAACAAAAAAGGCAAG
GCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAAAAAAAAAAAAAA

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FIGURE 1352

MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNSSNGNDNGNGKNGGLEHVPSSSSIHNGDMEKIL
LDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSSRPEN
IPPKEFHFRHPKRSVLSMRKSGAMKKGIFSAEFLKVFIPSLFLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1353

GGGTGGAGTGTAGGCCAGGGGGTTGGCGGTGCCGTGTCTATGAGAGGCTCAGTCTCTGAGCAGCCATTGAAGGGGAA
GGAAGTGC GG GTGTGTGTGTGTATGTGTGTGTGTATGTGTGTGCGCGCGTGC GTGTGTGTGTGCGCGCGCTAG
TGTGTGGACAAGGAGGTGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGGACTCCATTGCTATTCTCTTCTTTCT
CCCCACACCTATCTGGTGGTGGTAGTGGGCGTTTATATTGCGTTCCTTTTCAATTCATTTCTAAATCTCTTAAA
AATTTTGGGTGGGGGTATTGGGGAAGGCAGGAAAGGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACA
TGGAGATGAAGAAGAAGATTAACTGGAGTTAAGGAACAGATCCCCGAGGAGGTGACAGAGTTAGTCTTTGATA
ATTGCTGTGTGTCAATGGGGAAATTGAAGGCCTGAATGATACTTTCAAAGAAGTAAATTTCTGAGTATGGCTA
ATGTGGAAGTAAAGTTCGCTGGCCCGGCTTCCCAGCTTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATA
TTTCTGGAGGCTTGGAACTCTGGCAGAGAAATGTCCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAA
AAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCA
CAAACCTGGAAGATTATAGAGAAAGTATTTTGAAGTCTGCAGCAAATCACATACTTAGATGGATTGATCAGG
AGGATAATGAAGCGCCGACTCTGAAGAGGAGGATGATGAGGATGGCGATGAAGATGATGAAGAGGAAGAGGAAA
ATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAGGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAG
ATGAAGATGAAGCAGGTTGAGAGTTGGGAGAGGGAGAAGAGGAAGTGGGCCTCTCATACTTAATGAAAGAAGAAA
TTCAGGATGAAGAAGATTATGATGACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTC
GAGGGGAGAAGAGGAACGAGATGCTGAAGACGATGGAGAGGAAGAAGATGACTAGATCATTTCTAAGACCAGATT
CTCTAATGTTTCTGGGTGTGCAATAGAGTGATCACATCTTGTGTTCTTCATGTACGATAGCTATCCCTACAGAAG
ATAATGTGTAACTTTTATAGGAAAAGTGTGGTTTTACTATTTTTGCGCTTATCATTCCAAATAAGAAGTGTGCTG
TTAATGATCATATTGTATGTAGAGAAAAATTTTCATTGACTCCCATTTGTGGAATCCCTAGCAATTTATTTAGAC
TTAATTTTTTTAAATTCAGCTTACTGTATTAGTCATTTTTAGCCCATAAATTTAAACATGATCACTTTTACACAGG
TGTAGTATGGTGCATTTCAATTCCTTATTATATAAATTAAGTAAATTAAGTGTGCTATAATATAAAATGACAATA
GTCTCTTGAGTGGTAAAGTTGGTTATTTTTTTAGAGGTGATCCAGGAATCTTAGTGTGAAAGGCAGTTACCNNNNN
NNNNNNNNNNNNNNNNNGACTAAGAGTGTGTTGGTTGCTTTTTGTGCACAAGTAACTTGGAAAAATAGAAGCAGAAT
AGTAAAGGTTCTATTAGCAACATAGTTCATGGATTTTGTGGAGGTTCTATTAGTAAATATGGTTCATGGATTTA
GTGGTGACTGATAAGATTTTATTTTTGAAGGAAAAATGCTTATACTAAGTCCAGAGACATGCAGGTGAGCCCTT
TTGTCAGGCTGCAATCATGACATGCCGATGGTGTGTTATTTTGTGTTTTAGGTGTGCATTCTTTTCTTCTTAGC
AATTCCTTTATGATCACCTTCCCTTCTGTTTCACTCCCTCCCGCTCTCTCAAAGGAACCTGGGAACTTGTGA
AACCAGGAAAACCTTTAGTCTTATACCTCAACTACCTTTCAGTCCGTGCTGGGTTTTAAATAAGTGAAGTAGAA
GAAATTGAGTATTTTCTGACATAAGAATATATTATCAATACAGTTTTATGCAAGTAACTCTCCTTACCATAAATG
TTTCTTGGTTGACAACATCTAAGACAATATTAGTGGGATGAAGAAAGAAAAGCAGGGGTGCTTTTGAAGCAGTG
TTAGTGTTCCTCAAAGTGGAAACAATTGCCTGTTGATATATTAATAAGACATTAAAGTCAAATTTAATGTTGG
CCTCTCAAATGATTTGGATACCACTCTGCAAAGTATTTCTAACCTTTAATTTCCAGTTTTAAACAGATATAATA
ATAGCATTTAATTGGAATATACTAGGCAGCTGGAAAAGTATTTGAAACTAAATGACATTAAATTAAGATTTGT
TTTCAAGTGGATGTCCATAAAAGTAGAAAAATATTTGGGATAAGTGAGTGTGTGTTTCCCTTACATGGCTACTAA
ATAAAATATAATGAGTATACAAGTATATCTCTCTTTTGCTATGGAGGCTCCATGTTCAAGGCAATGGCTTTTTA
AATCTTGGCTATCTAAAATTTTTTCCCTTGTGTTTGAATATTGTAAGTTTTTAAAGAACTTAGTGTCAGCAAAAT
AATTGAAGTTATGCTTCTATACCTGGGACATAATTAATACTGAGTATAGTACTGCTGCTTCTTCTACAATGT
AAAAATGATGACTGTGGTGTGTTTAAAGTAAAAATTATGATGTTACTTGTGGAGAACTAAAAATGTTGTACAACGT
ACCGAAAGAAAACCTTGGGGATAAGTTTAGTGAGGGGATGGAATCCCCAAAGATAACATTTTCTTCTGCT
TTTTAAACTGAAATTCCTGTGTTCTAGTTTCTTAACAATTCTATTACATACTATGCCAGATTACAAAATACTTAT
TTTTAAATGAAATCTATATATTGACTTTCTTATCAATCATTTACTGTGCAATCAAATTAAGTACTTTGGTT
TGAAAACAACACTTAGAGCCTCCAGATAACTTTAAGACTTATTAGCTTTGTGGGTGGTATTTTCATGCAATA
AGTAAGGGTGGGTTTTATATTTGTAGAAAGTTTTCGGTCTTATTTAATGCTCTTTGTATGGCAGTATGTATATA
TTGTGTTAAGTTCCTCAAGAACTCCTTAAAAACTTTGAAGTTAATACTTTTGTGCAACTGTGTTTGAATAAAG
CCATGACAGTGTTAAAAACAACAAAAAATTTGCAGTACTCCTGATTATCTTTTATTGTTTTTGACTGTTCCC
TGTTTTTTTCTGTGACTGCTGTAACTTAAAGTTTTTGAACTGAATTGCTTCAAATAAATTGAAGATTGTTATA
ATGATTAACT

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FIGURE 1354

MEMKKKINLELRNRSPEEVTELVDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLPSLNKLRKLELSDNI
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKS LDFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEEDEDEDGEDDEEEENEAGPPEGYE EEEEEEEEEDEDEDEDEDEAGSELGE GEEVGLSYLMKEE
IQDEEDYDDYVEEGEEEEEEEEEGGLRGEKRKRDAEDDGEEEDD

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FIGURE 1355A

GCGGCCGCTGAATTCTAGGGCGGAGCGAAGAGAACCGGTGCGGGCAATCCTAGCGCGCAGCAGCAGCAGCAGCAG
CAGCACCCGCATCCGCTGCGGGAGTCCGAGCCGGAACACACCCCAAGTAGCTGCCCTTTCTCTTCTGTCATCTC
ACCGCCCCACCACAGACCGCGTTCCCGGAGGAAACCGGCCGCCACGCCCGGAGCATCTCCCTGTTGAGCGGG
CGCTGACGGACCCGGCGGCATGATGCGGCTGCGAGGCTCGGGGATGCTGCGGGACCTGCTCCTGCGGTGCCCCGC
CGGCGTGAGCGXGACTCTGCGCGGGGCACAGCCCTTGGTCACCTGTGCCGGCGTCCCGAGGCGGGGGACGGCC
GGCCGCGGGCCCGGCTGCCGCCGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCTGGCCGGCGGAGCCCTCGC
GCGGGGCTGTCCAGCTCTCCTTCGGAGATCTTGCAAGAGCTGGGCAAGGGAGCACGCATCCCCAGCCGGGGT
GTGCCACCCGCTGCCCGGCGCGCCCGGCCCAAGGACGGCCCGGGGAGACGGACGCGTTTGGCAACAGCGA
GGGCAAGAGCTGGTGGCCTCAGGTGAAAACAAAATAAAACAGGGTCTGTTACCTAGCTTGGAAAGATTTGCTGTT
CTATACAATTGCTGAAGGACAAGAGAAAATACCTGTTTATAAATTTATTACAGCACTCAAATCTACAGGATTGCG
AACGTCTGATCCAGGTTGAAAGAGTGTATGGATATGTTAAGATTAACTCTTCAAACAACATCAGATGGTGTCTAT
GCTAGACAAAGATCTTTTTAAAAATGTGTTTCAAGAGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAGTT
TGTGATTCCTGACTTTATGCTTTTACCTCACACATTGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGG
AAAGGTTGCAGATTATATTCCTCAACTGGCCAAATTCAGTCCCGATTGTGGGGTGTGTCTGTTTGTACAGCAGA
TGGACAGAGGCATTCTACTGGAGATACCAAAGTTCCTTCTGTCTTCAGTCTGTGTAAAACTTTGAAATATGC
CATTGCTGTTAATGATCTTGGAACTGAATATGTCATCGATATGTTGAAAAGAGCCGAGTGGACTAAGATTCAA
CAAATATTTTTGAATGAAGATGATAAACACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCACT
AATAAAGCAAGGAGTAAATAATGCTGAAAAATTTGACTATGTCATGCAGTTTTTGAATAAGATGGCTGGTAATGA
ATATGTTGGATTGAGTAATGCAACGTTTCAGTCTGAAAGAGAAAGTGGAGATCGAAATTTGCAATAGGATATTA
CTTAAAGAAAAGAGTGTTCAGAAAGGCACAGACATGGTTGGTATATTAGACTTCTACTTCCAGCTGTGCTC
CATTGAAGTGACTTGTGAATCAGCCAGTGTGATGGCTGCGACACTGGCTAATGGTGGTTTCTGCCCAATTACTGG
TGAAAGAGTACTGAGCCCTGAAGCAGTTCGAAATACATTGAGTTTGATGCATTCTGTGGCATGTATGACTTCTC
AGGGCAGTTTGCTTTCCATGTGGTCTTCCGCAAAATCTGGAGTTGCTGGGGCATTCTTTAGTTGTCCCCAA
TGTTATGGGTATGATGTGCTGGTCTCTCTCTGGATAAGATGGGCAACAGTGTAAAGGAATTCACTTTTGTCA
CGATCTTGTCTCTGTGTAATTTCCATACTATGATAATTTGAGACACTTTGCAAAAAAATCTGATCCTCGAAG
AGAAGGTGGTGATCAAAGGCATTCTTTGGACCATTGGACTATGAAAGTCTCCAACAAGAACTTGCTTTAAAGA
GACAGTATGGAAAAAGTGTCACCTGAGTCAAATGAGGACATCTCTACAAGTGTAGTATATAGAATGGAAAGTCT
GGGAGAGAAAAGCTAAAGAAATGGGTCTAGTTTCAGAAATGTTTCTTCATTAACTTTTCAAACATCTTTAGCTT
TTTTTTGCAAGTTATAATATTTTATTTGAGGTATTTTTGTTCTCAATCTGGGTGCTGGAGCCATAAAGCTTTT
TTTTCTTTTAACTCTTTGTATAAAGGCAGTAGATTAAGAAGTGCATTGTTGGTCTTTAAAAAGTATTTACAAGT
ACATAAATTTGCTTTATTTTTAAAAATACAAAAGGAAAAATTTAAATTTTTTTGATGTAATTAATGTTAAC
TATGTGGTCAGATAATCCCATTTTACAATAGTAACAGAAAATTGTAATCTTAGTTCTAAAATTCACAAATTTAA
CTCATAAGCTTTGTGCAATTTGTTTTCTTTTCCATTTTAAACTAATGTGATGCTTTAGTGGCAATAGAA
GGTACTTCTATGCTAAATACAAAATAAAAAGGCAAAATAATGAACCCCAAATTATTTTATTTAAATAGCAGTG
GATTATAAATTTAGCTTGTTGTTTACATTTATGCCATTTTGGTGATAGATTGGCTTTACATTTAAAAAATTTAT
TTAAAAATTTATCAAATGCTTTAAAAATAGACTCTACTTTTTTTATTTTGCAACTCCTGTCTGTCTGAGAGTT
GTTATATACAGGAGTGCTTATGTTACTAAAACATTCCAGCCAAAGAATTCAGATGTGAGATAATGATGTTTCA
TCAATAAAAAGCTATAATGGTTAGTTACTCAGAAGGAGAAACAGTGAGTGTCTCAAGTGAATTGTTACCTAAA
CAATTTTATTTTATATTATCCACATAACTTTTTCTATGTTATATTTAAATATGAATGGCAAATTTGGTTTTTA
GCTTTTACATTTTATATCTTAATTTTATAAATGCTAATATTTCTTTTGTGATAAGTTATAGCATCTCATAAAGT
TTGTTCTATTTGAAGTTTTTTAGAGTACTTGAGAAATGAATTTAGTCTGCAGGTAGTAAGTATGCTACTAAAATA
CGTTAGATCTAAATCCTTTTATTTGGTATAAAAATGCAATATTGAGAATCAAAACTTGTTTTTAAGAGAACTATA
GATTCTACACAACCTGATTTCAAGTAATTATTCATAGTATTTATAGTTGTCTTGCCAAAGTGATTGTAATTTCT
GTAGGACCTATTACACTTCTTCTTCTCCATATACTTCTCTGGTTTTCCCATAGTTCCTCTATAATTTCAAG
TTTGTGAAACCTGTTAATTTTAGTGGGGGATTAGAAGAAAACCTGGTGGTTTCTTAGCATGATGGTGTATGTA
TGTGGTAATGGAAAGTCTGTAAGTAATATAGTGTAGXAAAAAGATTCACTGAGTATTTAGATACTAGTG
XAAATAAAGATAGAAAATCTTGATCATAATGTCTTAAGTTGGGAAGTGTGATATTAAGAAAAGAAATTCCTTC
TAGAGGTGCTGGCCAAAAAGCCTTTTGGGCTAACTTAAGTATTAAATTTATATATTTAAATAATTATATTTTAAG

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FIGURE 1355B

TTGTAGAGGATTTTCCCAAGGATTTTATGCTTACTTGAATGTTCTTTGAATGTTTCAGATGCATATCCTAAXCTGG
ATGCTTCTCAAGGCCCTTACTGCATATTTGTGTTGCATATTTATGTTAGTTGCACCAGGGCCATTGTAGTTTGGG
CAACCGAATGCCTTAATTGGAAAAAGGCATTGTGGTTTCCCCTATTATCTAAATTGTTACATTTTACCATTTCA
TTCCGAAGTTGGTTTTACTTTATTAAATGAAGATTTAGTTTTCATATCGTATACXTAGCTGTATAGATTTCAAAA
TTAGGTTGTTAATTTGTGTCACCTTACTATTTTTGTGTTGGTAATGCTTTAAATGCATACTTAAAAATGAAGTACT
GTTATCTAAGCTACTGTGTTTAGAAAAATGTTAAGAATGAGCAGAAATTTTATAGAAAAGATAAACGGAAGAAGA
GATAAGATACTGCGAATAGGCCCTCAAACCTAAAAAGAAAAAATTTGCCAGTTTTAAGGACATATTTTGATTC
TTTCAGTATCTTAACACCTTTTTAAACAAAGTTCTTGATAGTACCACIATTATTGGGTTTGTGTTTATGCCATTAT
TGATTCTTGATATTCAAGCATTTACAATGTAGCATATTTGATTTTCTTTTTCTTTCTTTTTTGGCATGTTTTT
AGCATAAATGTTGCATTTTATCTTAGTGTGTTGGATGAAAACATTTGTGTTGTTTAGCTTTCATTGCTTTGTATA
TTAATAATGTACCTTTATTTTCCAGTATGCCTACATTTTGTATTGCACAATAAATTTATTTTAAGCTGAAAAA
AAAAAAAAAAAAA

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FIGURE 1356

MMRLRGSGMLRDLLLRSPAGVSXTLRRAQPLVTLCRRPRGGGRPAAGPAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENKIKQGLPSLEDLLFYTTAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQSNIVLLTQAFRRKFVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTADGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAIVVTSLIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYFYQLCSIEVTCEASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMMCMWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRFHFAKKLDPRREGGDQRHSFGPLDYESLQQELALKETVWKKVSPESNEDISTTVVYRMESLGEKS

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FIGURE 1357

AAGATCTAAAAACGGACATCTCCACCGTGGGIGGCTCCTTTTTCTTTTTCTTTTTTCCACCCTTCAGGAAGTG
GACGTTTCGTTATCTTCTGATCCTTGACCTTCTTTTGGGGAAACGGGGCCCTTCTGCCAGATCCCCCTCTCTTT
TCTCGGAAAACAACTACTAAGTCGGCATCCGGGTAACAGTGGAGAGGGTTTCCGCGGAGACGCGCCGCGG
GACCCCTCTCTGCACTTTGGGGAGGCGTGCTCCCTCCAGAACC GGCGTTCTCCGCGCGCAAAATCCCGGCGACGCG
GGGTGCGGGGTGGCCGCCGGGGCAGCCTCGTCTAGCGCGCGCGCGCAGACGCCCCCGGAGTCGCCAGCTACCG
CAGCCCTCGCGCCCACTGCCCTTCGGCCTCGGGGCGGGCGCCTGCGTGGTCTCCGCGAAGCGGGAAAGCGCGG
CGGCCGCCGGGATTGCGGCGCGCGGCAGCTGCTCCGGCTGCCGGCGGGCGGCCCGCGCTCGCCCCGCCCGCTT
CCGCCGCTGTCTGTGCACGAACCTTCCAACCTCCTTTCTCCCCACCCTTGAGTTACCCCTCTGTCTTT
CCTGCTGTTGCGCGGGTGCTCCACAGCGGAGCGGAGATTACAGAGCCGCCGGGATGCCCCAACTCTCCGGAGGA
GGTGGCGGCGCGGGGGGACCCGGAACCTTGCGCCACGGACGAGATGATCCCCTTCAAGGACGAGGGCGATCCT
CAGAAGGAAAAGATCTTCCGCGAGATCAGTCATCCGAAGAGGAAGGCGATTTAGCTGACATCAAGTCTTCCTTG
GTGAACGAGTCTGAAATCATCCCGCCAGCAACGGACACGAGGTGGCCAGACAAGCACAAACCTCTCAGGAGCCC
TACCACGACAAGGCCAGAGAACCCCCGATGACGGAAAGCATCCAGATGGAGGCCCTCTACAACAAGGGACCCCTCC
TACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCT
CCACCCATCCCGAGAACATCAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTCACCCCCCTC
ATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCATCAGATGTCAACTCCAAACAA
GGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGCTCTCCGGGTGGTGTGGACAGATC
ACCCACCTCTTGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTGAGGCAACCTACCCATCCTCA
CTGTCACTGACACTTCCATGTCCAGGTTTTCCCATCATATGATTCGCGGTCTCTGGTCCCCACACAACCTGGC
ATCCCTCATCCAGCTATTGTAACACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATGCACGTG
AAGCCTCAGCATGAACAGAGAAAGGAGCAGGAGCCAAAAGACCTCACATTAAGAAGCCTCTGAATGCTTTTATG
TTATACATGAAAGAAATGAGAGCGAATGTCTGTTGCTGAGTGTACTCTAAAAGAAAGTCAGCTATCAACCAGATT
CTTGGCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAATTAGCACGGAAGAAAGACAG
CTACATATGCAGCTTTATCCAGGCTGGTCTGCAAGAGACAATTATGGTAAGAAAAAGAGGGAAGAGAGAGAAA
CTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGAACATGGTGGAAAACGAAGCT
CATTCCCAACGTGCAAAGCCAAGGCAGCGACCCAGGACCTCTTCTGGAGATGGAAGCTTGTGAAAACCCAGAC
TGTCTCCACGGCCTGCCAGTCGACGCCAAAGGAACACTGACATCAATTTTACCCTGAGGTCACTGCTAGAGACG
CTGATCCATAAAGACAATCACTGCCAACCCCTCTTTCGTCTACTGCAAGAGCCAAGTTCCAAAATAAAGCATAAA
AAGGTTTTTTTAAAAGGAAATGTAAAAGCACATGAGAATGCTAGCAGGCTGTGGGGCAGCTGAGCAGCTTTTCTCC
CCCCATATCTGCGTGCATTTCCAGAGCATCTTGATCCAAACCTGTAACCTTTCCGCAAGGACGGTAACTTGGC
TGCATTTGCCTGTCATGCGCAACTGGAGCCAGCAACCAGCTATCCATCAGCACCACCTGAGGAGTTCATGGAA
GAGTTCCCTCTTTGTTTCTGCTTCATTTTTCTTTCTTTTCTTTTCTCTAAAGCTTTTATTTAACAGTGCAAAAG
GATCGTTTTTTTTGCTTTTTTAACTTGAATTTTTTAAATTTTACACTTTTTAGTTTTAATTTCTTGTATATTT
TGCTAGCTATGAGCTTTTAAATAAAATTGAAAGTCTGGAAAAGTTTGAATAATGACATAAAAAGAAGCCTTCT
TTTTCTGAGACAGCTTGTCTGGTAAGTGGCTTCTCTGTGAATTGCCTGTAACACATAGTGGCTTCTCCGCCCTTG
TAAGGTGTTTCAGTAGAGCTAAATAAATGTAATAGCCAAACCCACTCTGTTGGTAGCAATTGGCAGCCCTATTTC
AGTTTTATTTTTCTTCTGTTTTCTTTCTTTTTTAAACAGTAAACCTTAACAGATGCGTTCAGCAGACTGG
TTTGCACTGAATTTTCATTTCTTCTTATCACCCCTTGTTGTAAGGAGCCAGCACTTGAATTGTTATTACTT
TAAATGTTCTGTATTTGTATCTGTTTTATTAGCCAATTAGTGGGATTTTATGCCAGTTGTTAAATGAGCATTG
ATGTACCCATTTTTTAAAAAGCAAGCACAGCCTTGCCCCAAACTGTCATCCTAACGTTTGTCAATCCAGTTTG
AGTTAATGTCTGAGCATTTTTTTAAAAGAAGCTTGTAAATAAACATTTTTTAAAAATGTCATTTAAAAAAA
AAAAAAA

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FIGURE 1358

MPQLSGGGGGGGDPCLCATDEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGHEVARQ
AQTSQEPYHDKAREHPDDGKHPDGGLYNKGPSYSSYSYIMPMNMNDPYMSNGSLSPPIPRTSNKVPVQPSHA
VHPLTPLITYSDEHSPGSHPSHIPSDVNSKQGMSRHPPAPDIPTFYPLSPGGVGQITPPLGWQGQPVYPITGGF
RQYPSSLSVDTSMSRFSHMHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLMHVKPQHEQRKEQEPKRPHIK
KPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKK
KKRKREKLQESASGTGPRMTAAYI

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FIGURE 1359

GTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGGTGTACGCGGTGGAGGCCAGTG
AGATGGCACAGCACACGGGGCAGCTGGTCCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACCAGCAGAAGG
TGGAGGATGTGGTGCTGCCCCGAGAAGGTGGACGTGCTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTGAGT
TCATGATCGAGTCCATCCTGTATGCCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCCACCATGGCTG
CGTTGCACCTTGTGCCCTGCAGTGTGATAAGGATTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGT
TCAACCTCAGCGCTCTGAAGTAAGTGTCCACAGCTGGGACTGGCACCGTCTTGTGGGGCCTCCTGGTCCACAGTC
TGCAGGTGGGGCCAAGGCCCTGGGAGATCCCATACGACGGTTGGATAAATGAGGGTACCTGTGCACCCAGATAGGA
CAATCTGTTGTAGCATTGGAGTAATTAAGCAGTATGGTGCTATAACAAGACAGATGGGCAGAGCAGGGTAGAAT
GCAAGGAACAAAAATTTTCGTATGTGAAAAAGGTGGCATTACGATTAGGAGGGAGTGAGGGCCAAGTCAGCAAAT
TATTCTGGAGCAGTTGATTAGCCCTTGTTCTCTCACGCCATACGTGAAAACTTAATTCTGCATGGAATCAGCGTC
AGCGACAGACATCCATGGGGGCCTGTGTGCACCATCTTAGGTGGAGAAATGAGCAGCAACAATGGATGGAATGGA
CCCTGGGCTAGATAGAATCTGGCAGTCTATGTGGCAGAAATCAGCAAAAAACACGATTGTAAGCAAAACAAGTAA
TTAGAGAAATCACGTGCTGTACAGGTCTTGGAATCAATTAGAAAGAGATGACTAGCCAGATGGAATTGCAGCCCAA
TCATGTGAACAGGCAAACCGCAAAAAATAAATAAAATTACCAATAAATACATGAAAAATTATAATGTTGTTAGTA
GTTAAAAATGCGAATTAATAACATGCTGTTTTCCCTACCAGACAAGCAAAGAGTAAATTAATAATAGTAGCCAGG
CTTGCTGGCAGTGGCAGGGAGGTGTGGCTGCCAGGGCCTTAGAGGTTGGCATCAGGCTGCCCCACCCAGTCACT
GCCAGAGCCTCCACCTGAGTGTTCCCTCCCGGCACTGGAAGCCAGTGGCCGTCCAGAGGAACGTGATTGAATTGC
TGTATATCCATCTGGTGGAGCACTGCTGTGTGTCTGTGTTAAAAAGAAACCATAGGTTTTAGGGATATGTAATGA
TATTTAGAAAGGGTTTAAGAGACAGTAAAGCTTGGCAGAATAAACCGTGTATACAGAAATGGATGTTTGCTTGCAT
AAATAAATTTATATAAATATGTCTGGGGGATAAAAAATAAGTATATCACAATGCTAAGACAGGCATATGGGGAATT
TAAGCTTTTCTTTATACTTGTCATAGTTTCCAATTTTAAATTTGTAATTTTTATCAGAAAAATAAATGTGTA
AATATAGTGAATCTTTATTAACACATTCACTTTTATTGCTAAAAA

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FIGURE 1360

GGCACGAGGATTTCCCTCATCGTCAAGCTTTGTTCCCTCGTGGGGGCTAGAAAATCTCTTTCCAGTTCCAGATTGTGA
AGGGTTCCCTGAGTAAGCAGCGTGTCTCCATCCCCCTCTCTAGGGGCTCTTGGATGGACCTTGCACTCTAGAAGGG
ACAATGGACTTCTGGCTTTGGCCACTTTACTTCCTGCCAGTATCGGGGGCCCTGAGGATCCTCCCAGAAGTAAAG
GTAGAGGGGGAGCTGGGCGGATCAGTTACCATCAAGTGCCCACTTCCTGAAATGCATGTGAGGATATATCTGTGC
CGGGAGATGGCTGGATCTGGAACATGTGGTACCGTGGTATCCACCACCAACTTCATCAAGGCAGAATACAAGGGC
CGAGTTACTCTGAAGCAATACCCACGCAAGAATCTGTTCTAGTGGAGGTAACACAGCTGACAGAAAGTGACAGC
GGAGTCTATGCCTGCGGAGCGGGCATGAACACAGACCGGGGAAAGACCCAGAAAGTCACCCCTGAATGTCCACAGT
GAATACGAGCCATCATGGGAAGAGCAGCCAATGCCTGAGACTCCAAAATGGTTTCATCTGCCCTATTTGTTCCAG
ATGCCTGCATATGCCAGTTCTTCCAAATTCGTAACCAGAGTTACCACACCAGCTCAAAGGGGCAAGGTCCCTCCA
GTTACCACCTCCTCCCCACCACCCAAATCACCACCGCCCTCGAGTGTCCAGAGCATCTTCAGTAGCAGGTGAC
AAGCCCCGAACCTTCTGCCATCCACTACAGCCTCAAAAATCTCAGCTCTGGAGGGGCTGCTCAAGCCCCAGACG
CCCAGCTACAACCACCACACCAGGCTGCACAGGCAGAGAGCACTGGACTATGGCTCACAGTCTGGGAGGGAAGGC
CAAGGATTTACATCCTGATCCCGACCATCCTGGGCCCTTTTCTGCTGGCACTTCTGGGGCTGGTGGTAAAAGG
GCCGTTGAAAGGAGGAAAGCCCTCTCCAGGCGGGCCCGCCGACTGGCCGTGAGGATGCGCGCCCTGGAGAGCTCC
CAGAGGCCCCGCGGGTCGCCGCGACCGCGCTCCCAAAACAACATCTACAGCGCCTGCCCGCGGCGCGCTCGTGGA
GCGGACGCTGCAGGCACAGGGGAGGCCCCGTTCCCGCCCCGAGCGCCGTTGCCCCCGCCCCGCTGCAGGTG
TCTGAATCTCCCTGGCTCCATGCCCATCTCTGAAGACCAGCTGTGAATACGTGAGCCTCTACCACAGCCTGCC
GCCATGATGGAGGACAGTGATTAGATGACTACATCAATGTTCTGCTGCTGCAACTCCCCAGCTATCCCCAACC
CCAGGCTCGGACTGTGGTGCCAAGGAGTCTCATCTATCTGCTGATGTCCAATACCTGCTTCATGTGTTCTCAGAG
CCCTCATCACTTCCCATGCCCATCTCGACTCCCATCCCCATCTATCTGTGCCCTGAGCATGGCTCTGCCCCCAG
GTCGTCTTGACACCTTGGCAGCCCCCTGTAGTTGACAGGTAAGCTGTAGGCATGTAGAGCAATTGTCCCAATGC
CACTTGCTTCTTTTCCAAGCCGTCGAACAGACTGTGGGATTTGCAGAGTGTTCCTTCATGTCTTTGACCACAGG
GTTGTTGCTGCCCAGGCTCTAGATCACATGGCATCAGGCTGGGGCAGAGGCATAGCTATTGTCTCGGGCATCCTT
CCCAGGGTTGGGTCTTACACAAATAGAAGGCTCTTGCTCTGAGTTATGTGACATGCCTCAGCCCCATGGACTAAG
CAGGGGTCTGGTATAAAAACACTCCTGGAACGCCTTTGCCCTGATCCAAATGTTAGCACTTGCTAGTGAACGTC
TACTTATCTCAAGTTCTATGCTAAAGGCAATTTATCTTGATGTGATGATAAACCAAACTTATTAGCAAGATATGC
ATATATATCAAAAAAAAAAAAAAAAAA

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FIGURE 1361

MDFWLWPLYFLPVSGALRILPEVKVEGELGGSVTIKCPLPEMHVRIYLCREMAGSGTCGTVVSTTNFIKAEYKGR
VTLKQYPRKNLFLVEVTQLTESDSGVYACGAGMNTDRGKTQKVTNLNVHSEYEPSWEEQPMPEPKWFHLPYLFQM
PAYASSSKFVTRVITPAQRGKVPPVHHSSPTTQITHRPRVSRASSVAGDKPRTFLPSTTASKISALEGLLKPQTP
SYNHHTRLHRQRALDYGSQSGREGQGFIHILPTILGLFLLALLGLVVKRAVERRKALSRRARRLAVRMRALESSQ
RPRGSPRPRSQNNIYSACPRRARGADAAGTGEAPVPGPGAPLPPAPLQVSESPWLHAPSLKTSCEYVSPLYHQPAA
MMEDSDSDDYINVPA

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FIGURE 1362

CGGACGCGTGGGGAGAGGCTGTTTACCAGAACAGCATAACAAGGGCAGGTCTGACTGCAAGGCTGGGACTGGGAG
GCAGAGCCCGCCCAAGGGGGCCTCGGTAAACACTGGTCGTTCAATCACCTGCAAGACGAAGGAGGCAAGGATG

CTGTTGGCCTGGGTACAAGCATTTCCTCGTCAGCAACATGCTCCTAGCAGAAGCCTATGGATCTGGAGGCTGTTTC
TGGGACAACGGCCACCTGTACCGGGAGGACCAGACCTCCCCCGCGCCGGGCTCCGCTGCCTCAACTGGCTGGAC
GCGCAGAGCGGGCTGGCCTCGGCCCCGTGTGCGGGGCGCGCAATCACAGTTACTGCCGAAACCCGGACGAGGAC
CCGCGCGGGCCCTGGTGCTACGTACGTAGTGGCGAGGCCGGCGTCCCTGAGAAACGGCCTTGCGAGGACCTGCGCTGT
CCAGAGACCACCTCCCAGGCCCTGCCAGCCTTCACGACAGAAATCCAGGAAGCGTCTGAAGGGCCAGGTGCAGAT
GAGGTGCAGGTGTTTCGCTCCTGCCAACGCCCTGCCGCTCGGAGTGAGGCGGCAGCTGTGCAGCCAGTGATTGGG
ATCAGCCAGCGGGTGCGGATGAACTCCAAGGAGAAAAAGGACCTGGGAACTCTGGGCTACGTGCTGGGCATTACC
ATGATGGTGATCATCATTGCCATCGGAGCTGGCATCATCTTGGGCTACTCCTACAAGAGGGGGAAGGATTGAAA
GAACAGCATGATCAGAAAGTATGTGAGAGGGAGATGCAGCGAATCACTCTGCCCTTGTCTGCCTTCACCAACCC
ACCTGTGAGATTGTGGATGAGAAGACTGTCTGTTGCCACACCAGCCAGACTCCAGTTGACCCTCAGGAGGGCAGC
ACCCCCCTATGGGCCAGGCCGGGACTCCTGGGGCTGAGCCCCCAGTGGGCAGGAGCCCATGCAGACACTGG
TGCAGGACAGCCCCACCTCCTACAGCTAGGAGGAACTACCATTGTGTTCTGGTTAAAAACCTACCCTCCCC
GCTTTTTTGGCGAATCCTAGTAAGAGTGACAGAAGCAGGTGGCCCTGTGGGCTGAGGGTAAGGCTGGGTAGGGT
CTAACAGTGCTCCTTGTCCATCCCTTGGAGCAGATTTGTCTGTGGATGGAGACAGTGGCAGCTCCACAGTGAT
GCTGCTGCTAAGGGCTTCCAAACATTGCCTGCACCCTGGAAGTGAACAGGGATAGACGGGGAGCTCCCCCAGG
CTCCTCTGTGCTTTACTAAGATGGCCTCAGTCTCCACTGTGGGCTTGAGTGGCATACTGTATTTCATGGTTAA
GGTAAAGCAGGTCAAGGGATGGCATTGAAAAATATATTTAGTTTTTAAAAATATTGGGATGGAACCTCCCTACTG
ACCTCTGAGAACTGGAACAGATTGTACAGAAGTCAGAACTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGC
TGGTATGCTTCAGCTTGCTGGCAATGATGTGCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCCTG
TTTCATAAGGAAAGGAAGATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGCCTTG
GCCACAGGAGCAGAGGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGATAGTGACCTGTCTTCATTTTGC
ACAGGTAAGAGAGTAGTTAGCTAACCTATGGGAATTATACTGTGGGGCTTGAGAGCTGCTTCTAAGAGGCTAAC
CTGGAAACTAAGCTCAGAGGCAAGGTAATAAGCACTTCAGGGCTTGCTCCCCAAGTGGGCCTGATTTAGCAGGT
GGTCCTGCGGGCGTCCAGGTACAGACCTTCCTGTAGGGCACTGGGGCTAGGGTCACAGCCCTAACTCATAAAGC
AATCAAAGAACCATTAGAAAGGGCTCATTAAAGCCTTTTGGACACAGGACCCAGAGAGGAAAAAGTGACTTGCCC
AAGGTGCGTAAGCAAGCTACTGGCATGGCAAGAGCCCAGCTTCCTGACGGAGCGCAACATTTCTCCACTGCAGTGT
GCTAGCAGCTCAGCAGGGCCTCTAACCTGTGATGTCACTCAAGAGGCCTTGGCAGCTCCTAGCCATAGAGCTT
CCTTTCCAGAACCCTTCCACTGCCCAATGTGGAGACAGGGGTTAGTGGGGCTTCTATGGAGCCATCTGCTTTGG
GGACCTAGACCTCAGGTGGTCTCTTGGTGTAGTGATGCTGGAGAAGAGAATATTACTGGTTTCTACTTTTCTAT
AAAGGCATTTCTCTATATACATGTTTTATATACCTCATTCTGACACCTGCATATAGTGTGGGAAATTGCTCTGCA
TTTGACTTAATTAATAAAAAAAAAAAAAA

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FIGURE 1363

MLLAWVQAFVSNMLLAEAYGSGGCFWDNGHLYREDQTSPAPGLRCLNWLDQSGLASAPVSGAGNHSYCRNPDE
DPRGPWCYVSGEAGVPEKRPCEDLRCPETTSQALPAFTTEIQEASEGPGADEVQVFAPANALPARSEAAAVQPVI
GISQVRMNSKEKKDLGTLGYVLGITMMVIIIAIGAGIILGYSYKRGKDLKEQHDQKVCEREMQRITLPLSAFTN
PTCEIVDEKTVVHTSQTPVDPQEGSTPLMGQAGTPGA

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FIGURE 1364

AAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTTCTGATAGTGATATATGGCCATTTTAG
TGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAAAGTCAAGCAGTAGAGAAAATAAGACAAGCTT
TCAAGAAATTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGCGATTTTTTAAAAA
TAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAGTATGACAAATATGGAGAAAAGGGACTTG
AGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACATTTATCGTTATGATTTTGGTATTTATGATGATGATCCTG
AAATCATAACATTGGAAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTGTAAATTTTTACT
CCCCAGGCTGTTACACTGCCATGATTAGCTCCCACATGGAGAGACTTTGCTAAAGAAGTGGATGGGTACTTC
GAATTGGAGCTGTTAACTGTGGTATGATAGAATGCTTTGCCGAATGAAAGGAGTCAACAGCTATCCCAGCCTCT
TCATTTTTCGGCTGGAATGGCCCCAGTGAAATATCATGGAGACAGATCAAAGGAGAGTTTGTGAGTTTTGCAA
TGCAGCATGTTAGAAGTACAGTGACAGAACTTTGGACAGGAAATTTTGTCAACTCCATACAACTGCTTTTGCTG
CTGGTATTGGCTGGCTGATCACTTTTTGTCAAAGGAGGAGATTGTTTGACTTCACAGACACGACTCAGGCTTA
GTGGCATGTTGGATGGTCTTGTTAATGTAGGATGGAGTGTGCCACCCAGGATAACCTTTGTAAAAGCTTAG
ATATTACAACAAGTACTACTGCTTATTTTCTCCTGGAGCCACTTTAAATAACAAAGAGAAAAACAGTATTTTGT
TTCTCAACTCATTGGATGCTAAAGAAATATATTTGGAAGTAATACATAATCTTCCAGATTTTGAAGTACTTTCCG
CAAACACACTAGAGGATCGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCAATTTGGAAAAATGAAATTCAA
ATGATCCTGAGCTGAAAAACTAAAACTTACTTAAAAATGATCATATTCAAGTTGGCAGGTTGACTGTTCTCT
CTGCACCAGACATCTGTAGTAATCTGTATGTTTTTCAGCCGTCTCTAGCAGTATTTAAAGGACAAGGAACCAAAG
AATATGAAATTCATCATGGAAGAAGATTCTATATGATATACCTTGCTCTGCCAAAGAAAGTGTGAATCTCATG
TTACCACGCTTGGACCTCAAATTTTCTGCCAATGACAAAGAACCATGGCTTGTGATTTCTTTGCCCCCTGGT
GTCCACCATGTGAGCTTTTACTACCAGAGTTACGAAGAGCATCAAATCTTCTTTATGGTCAGCTTAAGTTTGGTA
CACTAGATTGTACAGTTTCATGAGGGACTCTGTAAACATGTATAACATTCAAGCTTATCCAACAACAGTGGTATTCA
ACCAGTCCAACATTTCATGAGTATGAAGGACATCACTCTGCTGAACAAATCTTGGAGTTCATAGAGGATCTTATGA
ATCCTTCAGTGGTCTCCCTTACACCCACCACCTTCAACGAAGTGTACACAAAGAAAAACAACGAAGTCTGGA
TGTTGATTTCTATTCTCCGTGGTGTCTATCCTTGCCAAGTCTTAATGCCAGAATGGAAGAAGTGGCCCGGACAT
TAACTGGACTGATCAACGTGGGCAGTATAGATTGCCAACAGTATCATTCTTTTGTGCCCAGGAAAACGTTCAA
GATACCCTGAGATAAGATTTTTTCCCCGAAATCAAATAAGCTTATCATTATCACAGTTACAATGGTTGGAATA
GGGATGCTTATTCCCTGAGAATCTGGGGTCTAGGATTTTACCTCAAGTATCCACAGATCTAACACCTCAGACTT
TCAGTGAAAAAGTTCTACAAGGGAATAATCATTGGGTGATTGATTTCTATGCTCCTTGGTGTGGACCTTGCCAGA
ATTTTGCTCCAGAATTTGAGCTCTTGGCTAGGATGATTAAAGGAAAAGTGAAAGCTGGAAGTAGACTGTCAGG
CTTATGCTCAGACATGCCAGAAAGCTGGGATCAGGGCCTATCCAAGTGTAAATTTTATTTCTACGAAAGAGCAA
AGAGAAATTTTCAAGAAGAGCAGATAAATACCAGAGATGCAAAGCAATCGCTGCCTTAATAAGTGAAAAATTGG
AACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGAACTTTGATAATGTTGAAGATGAAGAAAAAGTTTAAAG
AAATTCGACAGATGACATCAGAAGACACCTATTTAGAATGTTACATTTATGATGGGAATGAATGAACATTATCT
TAGACTTGAGTTGTACTGCCAGAATTATCTACAGCACTGGTGTAAGAAGGGTCTGCAACCTTTTTCTGTAAA
GGGCCGTTTATAAATATTTTAGACTTTGCAGGCTATAATATATGGTTCACACATGAGAAC

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FIGURE 1365

MAILVGTDQDFYSLGVSKTASSREIRQAFKKLALKLHPDKNPNPNNAHGDFLKINRAYEVLKDEDLRKKYDKYG
EKGLEDNQGGQYESWNYRYDFGIYDDDEIITLERREFDAAVNSGELWVFVNFYSPGCSHCHDLAPTWRDFAKEV
DGLLRIGAVNCGDDRMLCRMKGVNSYPSLFIFRSGMAPVKYHGDRSKESLVSFAMQHVRSTVTELWTGNFVNSIQ
TAFAGIGWLITFCSKGGDCLTSQTRLRLSGMLDGLVNVGWMDCATQDNLCKSLDITTSTAYFPPGATLNNKEK
NSILFLNSLDAKEIYLEVIHNLPDFELLSANTLEDRLAHRWLLFFHFGKNENSNDPELKKLKTLLKNDHIQVGR
FDCSSAPDICSNLYVFQPSLAVFKGQGTKEYEIHGGKILYDILASAKESVNSHVTTLGPQNFPANDKEPWLVD
FAPWCPPCRALLPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVFNQSNIEYEGHSAEQILEFI
EDLMNPSVSVSLTPTTFNELVTQRKHNEVWMVDFYSPWCHPCQVLMPEWKRMARTLTGLINVGSIDCQYHSFCAQ
ENVQRYPEIRFFPPKSNKAYHYHSYNGWNRDAYSLRIWGLGFLPQVSTDLTPTQTFSEKVLQGNHWVIDFYAPWC
GPCQNFAPFELLARMIKGVKAGKVDCQAYAQTCQKAGIRAYPTVKFYFYERAKRNFQEEQINTRDAKAI AALI
SEKLETLRNQGRNKDEL

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FIGURE 1366

CTGAATTACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAAATGCTCTGTACAGCCAACGGTTTCCCTT
GGGGGCTTTGAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAG
CACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCT
GGAAAGCGGTCTGCCCCCTGGAGGTGGTAGCAAGGTTCACAGAAAAAAGTAAACTTGCTGCTGATGAAGATGAT
GACGATGATGATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAA
GCGCCAGTGAAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCA
AAACCATCATCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAACACCAAAA
GGACCTAGTTCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAAGTATAGAAAAAGCGCATTGAACAGTCCTGGGC
ACTACATGTAAATTAAGCCCAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAGTCCATACTGAGTGTCTC
AACAATCCAGACTGAAGTCTTCTATTTTAATCTCAATCCCCTTTTCTGATTGCCACCCATGCCTCTTCAGGCTG
GAAACAATCTCTTGGTTCCTTAAAGCACTTTCTTCTGACTGCTGTGATTTCAGTGAACCTTGCCCTTTGCTTTCTA
TTACTTGTGCATTTGCCTCACCTGACAATGTTTTAAATCGCCTTTGTATCTCCTTAGCTGCTCAATAAATATTG
AATGCATCAAAAAAAAAAAAAAAAAA

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FIGURE 1367

MSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKK
VKLADEDDDDDEEDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQESFKK
QKTPKTPKGPSSVEDIKAKMQASIEKAH

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FIGURE 1368

AAGCCGTGCGCTCCCGGGCTGCGAGGTCTGGCTAGGCTACGGGCCACGCGCGCGCCGCTGCCGCCGCCACTGT
CCTCTTCGGAGGCGCGGGCCCGACGGAACCATGTTTGTGGCTCGCAGCATCGCGCGGACCACAAGGATCTCAT
CCACGATGTCTCTTTTCGACTTCCACGGCGCGCGGATGGCAACCTGCTCCAGCGATCAGAGCGTTAAGGTCTGGGA
TAAAAGTGAAAGTGGTGATTGGCAATTGTACAGCTAGCTGGAAGACACATAGTGGATCTGTATGGCGTGTGACATG
GGCCCATCCTGAATTTGGGCAAGTTTTGGCTTCTGTCTTTTGACCGAACAGCTGCTGTATGGGAAGAAATAGT
AGGAGAATCAAATGATAAACTGCGAGGACAGAGCCACTGGGTAAAAGGACAACCTCTGGTGGATAGCAGAACATC
TGTTACTGATGTGAAGTTTGCTCCCAAGCACATGGGTCTTATGTTAGCAACCTGTTCCGCAGATGGTATAGTAAG
AATCTATGAGGCACCAGATGTTATGAATCTCAGCCAGTGGTCTTTGCAGCATGAGATCTCAIGTAAGCTAAGCTG
TAGTTGCATTTCTTGGAACCCCTTCAAGCTCTCGTGCTCATTCCCCCATGATCGCCGTAGGAAGTGATGACAGTAG
CCCCAACGCAATGGCCAAAGTTTCAGATTTTTGAATATAATGAAAACACCAGGAAATATGCAAAAGCTGAAACTCT
TATGACAGTCACTGATCCTGTTTCATGATATTGCATTGCTCCAAATTTGGGAAGATCTTTCCATATTCTAGCAAT
AGCGACCAAAGATGTGAGAAATTTTACATTAAGCCTGTGAGGAAAGAACTGACTTCTCTGGTGGGCCAACAAA
GTTTGAAATCCATATAGTGGCTCAGTTTCGATAATCATAATTCTCAGGTCTGGCGAGTGAGTTGGAATATAACAGG
AACGGTGTAGCATCTTCAGGAGATGATGGGTGTGTAAGATTGTGGAAGCTAATTATATGGACAATTGGAAGTG
TACTGGTATTTTGAAAGGTAATGGGAGCCCACTCAATGGGAGTTCTCAGCAGGGAACCTCAAATCCTTCCCTAGG
TTCAAATATTTCCAAGTCTTCAGAATTCATTAATGGATCTTCTGCTGGCAGAAAGCACAGCTGAGACAAGCTAAC
TGGAGTAACCTTTGCTGTTTTGCTGCTTGTGCTGCACACTGGAATGGAAGCGAGCTCCCTTTTCCCTTCCCC
AGCGCCGTTTGACCTCTCCCAAGGATACACCAGCAGCCTGCTTACTACTAAACGCAATCCAAAAGGCCTTTAAAA
ATACAGTGTATATTTTTTGTACTAGTCAGTTTATTGACACTATTTGAACTTTTGAAATATAAACGGAGAGGCTT
TCTGTTGAGACATTGTACCAAACAATTTTTTGAATGTTCCCTGAACTAATTTGGGTTTAAAGATTAAAGGG
TTGTTACCATTCTTATCTGAGTAGTTGGGAGGAGGGGAATACCCTTTAGTTCATTGGAATAATAGACATATT
TCTTTTGCTTTCTTAAACAGCTTAAATGATGACTTTTATAATTTAATTTGAAGATTGAATAAATATTTTTT
ATAAAGATTGTTTTGAGTGCTGATTGTTTTACTTTTTGTAGATTGCTTTATCCATGATATTCAGTACAACTCTG
TCATTTCTTTGTAATATTTAAAAATATAGTAAAGGAGTGAATTAATAAGTAGTAATAGTAAATGAAAGGAA
CTTGACTGTACAGTTTGTAGCCCAGGTTAAGGCATTGGGTATTGTTTCATTTAACCAATTTGGGGACTAAGATG
GGAAACACTTTTTTTATTAAGTTTTTAATTCATAGTCACTAAAGAGATAAATGTTTCTTATATACATTTGTGTAT
TTTTATGGTGTATTTATTCCATGGCTTAGCTTCCTTCAAATCAAATTTGGACACACACTATTAAGAGAAGCCA
TTAAATTTTACTAAAATGTGCATGTAAATTAATTGTGAGCATTCCATGCTCAAGATTTTCTTAATTTAGTTC
GCTGTTTAAATTAATTCATGTCTGTAAAGTTCTGACCTTGATAACAAAGCTATAAATATTTAAGTTTGCTAATA
TGCGTAAGTATTATCGTAAGTTACAAGATGGAAGAAGATAACAGTAGGGCACAGTCATTCTGTGAATCCTTTT
ACTTATCAAATTTGGTAGCTATTCTAAGGCTTTTGCAGAAAAATAAGTGTCAATGTTTGTAGTTCTTCAAAG
CATGTTGCAGTAGCCAGCCATACTATGTGATTCCCAGTATCATGTACGCACTAAAAAATGTGTGCTTGCTGC
TGCTGTGAGTGAACCATGCTTAAGATAAAAACTTAACTAGATCTGTAAATGTACAGAATAGCATCAGATGTTT
CTGAGAGATTAGGAAAATGTTTGAATTTATAAAATTAATGTTTTCTTTGTAACATTTATATATATTTTTTAAC
ATTTTAAGTTTAACAGATTGTATTCCTTTCAAGTTTCTATACTTGCTTAAGCAATCTTGATTGAGTAAGGCTCT
TGATTTGTGCTATTATGTTCTGTAGTTTTGGCATGAATATACTAAAGCTTTTTTTTTTTTTTTAGCATGTGTT
TTCTCCTCTTTGGTTCTCTTGTATTTACTACTTTTCTCTTTTCTTGTGTTTTTTTTTCTGTTTTTGTGTTT
TTTGGTGTGTTTCTGCTTCATTGTTTCAGGTATTTCTTTACCCCTCTGGATTCCCCACGGGCTGGATCGAG
ATGGTCCAGTTATGCCCAGCTCCTTCTCCTCCTCCTCCTCCTGCTGGTAGAGCACTCTTGCGATGCTGACACTGC
CAACCTCCAGTATCCTCACCTCGCAGACGATATCTCTCTCGGCTCTTAATCCCTTACCTGAGAATGAAGGGAT
TTAAACACTGATTTAACATTGAAAGGCCTTATCAAGTGCTTGTAATGCTTTCAATTTCTGGCTGCTTTTTGTT
TTTCATTTTCTTTCAGAAGATTTTCTAAGTTAGGGTCTGCTTGCATGTATTACAACAGAATACAGTGTGTTGG
AACCTAAATCTGTTTGTGCTGTGCATCAAAGGAACATTTGCTTCACTGGGTGATAACCTTTGATGAAATGAGAT
ATGTCCAAGTAACGTTAACTGTGAAGTTACACACAGTAGCTGACTTCAAAGTGCTGTTCTGTAAATTTTATTT
TAACTGTTACCATAGTCTTAAGTTGTTTATGCTTTATCAGACTGGCTAATGTGAAAGCATAATATTATGAAGTT
TATTCTGCCTTATGAGACCTTAAAAATGATTTCAATTTACAGGCTAATGTTGTAAGTACTAGTAGTAAAAAT
AAATCATTCTGTGTATAAAGCAGCAAAACCTAAAAA

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FIGURE 1369

MFVARISIAADHKDLIHDVSFDFHGRRMATCSSDQSVKVWDKSESGDWHCTASWKTHSGSVWRVTWAHPEFGQVLA
SCSFDRTAAVWEEIVGESNDKLRGQSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYEAPDVMNL
SQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSDDSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPVHDI
AFAPNLGRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFDNHNSQVWRVSWNITGTVLASSGDDG
CVRLWKANYMDNWKCTGILKGNGSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS

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FIGURE 1370

GGCGTCCCCTCCGTGAGGTGCGGCCCGTTGCGACCGCCCCCGCCGCAAGAAAGATGGCAGTGGCCTGATCCGGG
CCCGTTGGCGGCGTCACTGACGCTTCGCTCCGGTCTTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCT
GCTTGTCCCCATCCTGCGGCCGTCTGGGGACACAGAGCCCTCCGTGGTGCCCGGGGATTGGATTGGAGCCAGGA
CCTCACTTCTCTCTGCCCCCTGCCCCCTGCCCCCTCCAGCACCTGGCCCCACACCCTGCAGCCCGCCCCATGGTCT
GGCCCTGGGTGGCGATGGCGTCCAGGTGGGGTCCCCCTCATTGGCCTGGCTCCGTGCTGCCTCTGGCTCCTGGGGG
CAGTCCTTCTGATGGACGCGTCTGCACGGCCTGCCAACCACTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGG
AGAATGAGATCCTGCCCCAGACCACCTGAACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCC
ACCAGGAGGTCTTCTTAGGCAAGGACCTGGGTGGCTTTGATGAGGACGCGGAGCCGCGGCGGAGCCGGAGGAAGC
TGATGGTCATCTTTTCCAAGGTGGATGTGAACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCA
TGGAGAAGACGGCCGAGCACTTCCAGGAGGCCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCCTGACG
GGGACGGTCACGTGTCTTGGGACGAGTATAAGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGGTTG
CCGACGCCATCAGGCTCAACGAGGAACCTCAAAGTGGACGAGGAAACACAGGAAGTCTGGAGAACCTGAAGGACC
GCTGGTACCAGGCGGACAGCCCCCTGCAGACCTGCTGCTGACGGAGGAGGAGTTCTGTGCTTCTCCACCCCG
AGCACAGCCGGGAATGCTCAGGTTTATGGTGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGC
TCTCTGTGCCCCGAGTTTCTCTCCCTGCCCCGTGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACT
GGGTGAAAGACAGAAAAAGGAGTTTGAGGAGCTCATTGACTCCAACCACGACGGCATCGTGACCGCCGAGGAGC
TGGAGAACGTGCCACACTCCCGCTGCAGCCAATAGGCACCTTAAATAGCCACTTCGTGCGGCTGGCCGCGGAGC
TCGGAGGGGGAAAGGCGACGCTGACCTGTGCCCCGCTCGCCCGCAGAGCTACATGGACCCCATGAACGAGTACAA
CGCGCTGAACGAGGCCAAGCAGATGATCGCCGTGCGCGACGAGAACCAGAACCACCTGGAGCCCGAGGAGGT
GCTCAAGTACAGCGAGTTCTTACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGACGAGGAGTTTTGAGC
GCCCCGCGCGCCCCGCGCGCCCCCACGCACCACCGGGGGGGCCTCGCGGGTGAATCCGGCCTCCGTGGCTGT
CCCGGACCCACCTCTTCTGCGCGCCACCACCGGCGGACCGACCGCGGCTTCCCCAGTTGATGAGCGGCGTGT
CCCCCTGCGAGCGCGCACCCCGGCGGGGCTTTGGCTGTGACGCGGTGCGGGCGCGGGGCTGGTCTGTGGCCCCGC
GGCGCGCCTCCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCACTCTG
CCGAAGGCGCTGACGGCATCGCGGCCGAACCTCTGGGCCCCGGCCCTCCAGGGCCGCGCTCCGTGGGAAAAA
ACAGCTCCTCCATTTCTTGGAACTGAACGATTATTAATAAATAGATAAACTTCGCTGGAAATGAGTAGCCAGGA
AGTTACAGGGGAGGTCCGGGGTCTTCCCGGGGCTGGCGTGTGGAACCACCCAGGTCCCGCAGCTGCCTCTGA
GAAATCCAAATATTTTTTGTGACAAGAATCACAACATTTACTTTAATATAAAAAAAAAAAAAA

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FIGURE 1371

MVWPWVAMASRWGPLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANRENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDDQDQKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQNHLEPEEVLKYSEFFTGSKLVDYARSVHEEF

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FIGURE 1372

GGCACGAGGGTCCCTGGGCGGACGGCGGTGTCCCGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGG
GCGCGGGACCGGGAGGCGCAGGGACCGGACGGCTCCCGAGTGCGCCACCTGACGCTAGAAGAAGTCTTCACTTCC
CAGGAGAGCCAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCC
CAGCCTTGGGCTGAATGGCAGCACCCACGCCCCCGCTCCGGTGTGACCCACCTGCTGGTGGCTCTCTTCGGCA
TGGGCTCCTGGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGA
GCCTCCCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGACCCTCTGGAGGAGGC
TGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGG
CCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTGC
TGGCACTGGCATGTGTGCCTCGAATGTCACTTTCTGCCCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGT
CATTCTTCTGGGTCAAGGCCTGAGTGCCTGCTGCCCTGCGTGTGCGCCCTAGTGCAGGGTGTGGGCCGCTCG
AGTGGCCCCAGCCCCCATCAACGGCACCCCTGGCCCCCGCTCGACTTCCTTGAGCGTTTTCCCGCCAGCACCT
TCTTCTGGGCACTGACTGCCCTTCTGGTCTGCTTTCAGCTGTGCCTTCCAGGGTCTTCTGCTGCTGTGCCGCCAC
CACCATCTGTACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAG
AGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAGACCCTAAGGCCTATCAGC
TTCTATCAGCCCGCAGTGCCTGCTGGGCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGTGCCTG
CCGTGCAGAGCTTTTCTGCTTACCCTACGGCGCTTGGCCTACCACCTGGCTGTGGTGTGGGCAGTGTGCCA
ATCCCCCTGGCCTGCTTCCCTGGCCATGGGTGTGCTGTGTCAGGTCTTGGCAGGGCTGGGCGGCTCTCTGCTGG
GCGTGTTCGTGGGGGTACCTGATGGCGCTGGCAGTCTGAGCCCTGCCCGCCCCCTGGTGGGCACCTCGGCGG
GGGTGGTCTCGTGGTGTGCTGTGCTGGGTGCTGTGCTTGGCGTGTCTCTACGTGAAGGTGGCAGCCAGCTCCC
TGCTGCATGGCGGGGGCCGGCCGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTG
TTGCTATGTTCCCCCGACAGCATCTATCAGTGTTCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCCT
GAGCCTGGGCAGGTGGGGACCCCGCTCCCCAACACCTGTCTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTG
CAGCCCAGGAGGCCCGCACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTTCCAGGGT
GGGCAAGGGCAAGGAGCAGGCTTGAGCCAGGGACCAGTGGGGCTGTAGGGTAAGCCCTGAGCCTGGGACCTA
CATGTGGTTTGCCTAATAAAACATTTGTATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1373

MAAPTPARPVLTHLLVALFGMGSWAAVNGIWVELPVVVKELPEGWSLPSYVSVLVALGNLGLLVVTLWRRRLAPGK
DEQVPIRVVQVLGMVGTALLASLWHHVAPVAGQLHSVAFLALAFVLALACCASNVTFLPFLSHLPPRFLRSFFLG
QGLSALLPCVLALVQGVGRLECAPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAAFQGLLLLLPPPSVP
TGELGSGLQVGAPGAEEEEVEESSPLQEPPSQAAGTTPGDPKAYQLLSARSACLLGLLAATNALNGVLPVQSF
SCLPYGRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGLSLLGVFCGGYLMALAVLSPCPPLVGTSAGVVLV
VLSWVLC LGVFSYVKVAASSLLHGGRPALLAAGVAIQVGSLLGAVAMFPPTSIYHVFHSRKDCADPCDS

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FIGURE 1374

GGCACGAGGGTCCGCGGGAGCCGCCGCCGCCGCTCCCGTCCCAGCTGCCGCCCCGCGGGCCCCGCCGCGGC
CAGGATGCTGGAGGAAGCGGGCGAGGTGCTGGAGAACAATGCTGAAGGCGTCTTGCTGCCTCTCGGCTTCATCGT
CTTCTGCCCCTGTGCTGCTGCTGGTGGCGCCGCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTCACCGTGTA
CCGCATGCAGCAGTACGACCTGCAGGGCCAGCCCTACGGCACACGGAATGCAGTGCTGAACACGGAGGCGCGCAC
GATGGCGGGGAGGTGCTGAGCCGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCTACGAGCAGTACCAGAA
GGCCCTGCGGCAGTCGGCGGGCGCCGTGGTCAATCATCTGCCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCTGT
CCGGCAATTCATGGAGATCGAGCCGGAGATGCTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGA
CGAGGCCCTGTGTCTATCTACAAGCAGACCCAGGCTGCCTCCGCCCTCCAGGGCTCCGCCTCTGTGCTGAAGT
ACTGCTGCGCACGGCCACTGCCAACGGCTTCCAGATGGTCACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTG
GCTGATTGCCAGCGTGGAGGGGGCGGTGACGGGGCTGGGCGGAGAGGACCTTCCACCATCGTCATCGTGGCCCA
CTACGACGCCTTTGGAGTGGCCCCCTGGCTGTGCTGGGCGGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCT
GGAGCTGGCACGCCTTCTCCCGGCTCTACACCTACAAGCGCACGCACGCCGCTACAACCTCCTGTTCTTTGC
GTCTGGAGGAGGCAAGTTTAACTACCAGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACAAGACTCCAG
CCTGCTTCAGGACAATGTGGCCTTCGTGCTGTGCTGGACACCGTGGGCCGGGGCAGCAGCCTGCACCTGCACGT
GTCCAAGCCGCCTCGGGAGGGCACCCCTGCAGCACGCCTTCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAGTT
CCCTGAGGTACGGTTCTCCATGGTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCG
CTTCGCCATCCGCCGACTGCCCGCCTTCACGCTGTCCACCTGGAGAGCCACCGTGACGGTCAGCGCAGCAGCAT
CATGGACGTGCGGTCCCGGGTGGATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCG
AGTCATCTACAACCTGACAGAGAAGGGGACACCCCGAGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCA
GGAGCAGCTGGACTCGGTGATGGACTGGCTACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCAC
CTTCTCAGCACGCTGGAGCACCACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAA
GCGGGACCCAGAGTTTGTCTTCTACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGTCTT
TGACCTGCTCCTGGCTGTTGGCATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTACGCCTCCT
CTACAAGACCGTCCAGAGGCTGCTCGTGAAGGCCAAGACACAGTGAACAGCCACCCCGACAGCCGGAGCCCCCG
CCGCTCCACAGTCCCTGGGGCCGAGCACGAGTGAGTGACACTGCCCCGCCGCGGGCGGCCCTGCAGGGACAGGG
GCCCTCTCCCTCCCCGGCGGTGGTTGGAACACTGAATTACAGAGCTTTTTTCTGTGCTCAAAAAAAAAAAAAA
AAA

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FIGURE 1375

MLKASCLPLGFIVFLPAVLLLVAPPLPAADAAHEFTVYRMOQYDLQGOPYGTRNAVLNTEARTMAAEVLSRRCVL
MRLLDFSIEQYQKALRQSAGAVVILPRMAAVPQDVVRQFMEIEPEMLAMETAVPVYFAVEDEALLSIYKQTQA
ASASQGSASAAEVLLRTATANGFQMTSGVQSKAVSDWLIASVEGRLTGLGGEDLPTIVIVAHYDAFGVAPWLSL
GADSNGSGSVLLELARLFSRLYTYKRTHAAYNLLFFASGGGKFNYQGTKRWLEDNLDHTDSSLLQDNVAFVLCCL
DTVGRGSSLHLHVSKPPREGTLQHAFLRELETVAAHQFPEVRFSMVHKRINLAEDVLAWEHERFAIRRLPAFTLS
HLESHRDGQRSSIMDVRSRVDSTLTRNTRIIAEALTRVIYNLTEKGTFFDMPVFTEQMIIQQEQQLDSVMDWLTN
QPRAAQLVDKSTFLSTLEHHLSRYLKDVKQHHVKADKRDPEFVFYDQLQVMNAYRVKPAVFDLLAVGIAAYL
GMAYVAVQHFSLLYKTVORLLVKAKTQ

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FIGURE 1376

CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCCTGTGGAGTGGTGGGGCCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTTCGGAAGGGAGGAT
CAGGGATGTTTGCGAGCGGCTGGAACCAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGCTGC
TGCCCTGCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGAGTTGCGCTGGCTTCCGGCGG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCCGGAAGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAAGTGGCCAGCAGCGCGCCGCCACA
CCTTTCTCATTACGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGTAGGCTGGGACTGGGACCCGACGGCGGCGACAGCGGCGAGGGGAGCGCTGGAGAAGCGGAGC
GGCAGCGCGGGAGCCGAGATGCAGCGGCCGGAAGCGGCGGAGTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCGCGCCCTCTGTACCTGGAGCAACTGTGGCGTGTCTCTCCCGCTGGCCAGAGTTTCTGT
GGCTGTGTTGCGGTGGCCAAGGCCGCGCTGCGCACTGCCTTTGTGCCACCGCCCTGCGCGGGGCCCCCTGC
TGCACTGCCTCCGAGCTGCGGCGCGCGCGCTGGTGTGGCGCCAGAGTTCTGGAGTCCCTGGAGCCGGACC
TGCCCGCCCTGAGAGCATGGGGCTCCACCTGTGGGCTGCAGGCCAGGAACCCACCCTGTGGAATTAGCGATT
TGCTGGCTGAAGTGTCCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCAGAGCATAACAGACA
CGTGCTGTACATCTTACCTCTGGCACACGGGCTCCCCAAGGCTGCTCGGATCAGTCATCTGAAGATCCTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCCACCAGGAAGATGTGATCTACCTCGCCCTCCCACTCTACCACA
TGTCCGTTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGCTGAAATCCAAGTTCTCGG
CTGGTCACTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCGAGCAAGGCAGAACGTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCAG
ATACCTGGGAGCGTTTTGTGCGGCGCTTCGGGCCCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TGCCACCATCAACTACACAGGACAGCGGGCGCTGTGGGGCGTCTTCTGGCTTTACAAGCATATCTTCCCTT
TCTCCTTGATTGCTATGATGTCACCACAGGAGAGCCAATTCCGGACCCCCAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGGTAAGCCAGCAGTCCCCATTCTGGGCTATGCTGGCGGGCCAGAGC
TGCCCCAGGGGAAGTTGCTAAAGGATGTCTCCGGCCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGGTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTTCAGGTGGAAGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTCTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCCACTGTCTGAGAACTTGCCACCTTATGCCCCGCCCCGATTCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTCGGATGGCAAATGAGGGCTTCGACCCCAGCACCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCCCTCACAAGTCCCCGTACAGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAGAACTTCCACACCTGAGGCACCTGAGAGAGGAACCTCTGTGGGTGGGGGCGGTGCAGGTGTACTGG
GCTGTGAGGGATCTTTCTATACCAGAACTGCGGTCACTATTTTGAATAAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1377

MGVCQRTAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLLPLLLLLPLLLLKLHLWPQLRW
LPADLAFAVRALCCKRALRARALAAAAADPEGPEGCSLAWRLAELAQQRAAHTFLIHGSRRF SYSEAERESNRA
ARAFRLALGWDWGPDGGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGP
EFLWLWFLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGVPVGYLSSPQSIIDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLLGIVGCMGIGATVVLSKFSAGQFWEDCQQHRVTVFQYIGELCRYLVNQPPSKAERGHKVR LAVGSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGORGAVGRASWLYKHIFPFSLIRYDVTGEP IRDPQGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGPELAQGGKLLKDVFRPGDVFFNTGDLLVCDDQGF LRFHRTGDTFRWKGE
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSENLPYARPRFLRLQESL
ATTETFKQKVRMANEGFDPSTLSDPLYVLDQAVGAYLPLTTARYSALLAGNLRI

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FIGURE 1378

AAAGAAAAATGCTCTGCATGGATTGGAGACACAGCAATAACTACTGTTGCCATGGAAGGGTTAACAGTGTAGGAG
CTGGTTTATCAGTCCGCTTTGACATACAGCTAAAGGAAATTTATGTTTGGGGGAAAAAGGCCCTCTGTTCACCTT
AAAATTTCAGTGTGGACTTATGCCAAAGGGGGCTGTTTAAAGTTGAAAGAAGCCAAGTTAAGTTTGGCCTCTTGCCT
GGAATCACTTGAATTCIGAAATTTCACTGCGACGGACATGTGCCTTGTACATTTCCATTGCTTAATCCTGAAG
TTTGGTGCAAGTCTCTCTGCACCTATTAAAAAGTGATGTATATACTTCCTTCTATTCTGTTGAGTTGTATAGAA
TTGCTTTTGTATTTAACACTTTGTAATTTTACAATATTTTTAATTTAAATAAATAAACACATTTTTCCCTC
CTGGGAAGTCATGAAAA

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FIGURE 1379

RKMLCMDWRHSNNYCCHGRVNSVGAGLSVRFDIQLKEIYVWGKKALCSL

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FIGURE 1380A

AGCGATCCGAGGCCCGCCCCGCCCCGCCCCGCGCCGCGCCGCGCGCTTGCCGCGGGCTAGCACTGACGTGT
CTCTCGGCGGAGCTGCTGTGCACTGGAACGCGCTGGGCCGCGGGCAGCGTCGCCTCACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGAGCCCCGAGCAGCCGCGGCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCCTGCCGAAATTCAGAAGCCAGAGAGGAAGATTAGTTTAAAGGAGAAAGTGTCTGGACCGCTATCACCTT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCCTGTTTGGGATCATGTCTTCAGATTAGCTGACCCCTTCTATTG
GATGAGAGTGTATCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTCACGTCTGGCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAGACCGAGCTCTCTTCAACGG
AGCCCAAAAGTTATTTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCCTGCTAATCACCATTAGCTCTTGTGCTGGCTTAATTGTCCTACT
TTTGGATGAATCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTAGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGTCCGAGCCCTTCGGGAGGCGTTTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATTCTTTGTCTTTCAGTGGTCATCTATTTCCAGGCTTCCGAGTGG
CCTCCAATCAAGTCGGCCGCTACCGTGGCCAGTACAACACTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCATCTCCCAATGCTCTCAGCTCGCTTCACTGG
CAACTGCTGGTTCAGCTGCTGGGCACCTGGTGGACACGTCTTCTGGGGGCCAGCACGTGCTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTTGGCTCCGTGTTAGAAGACCCGGTCCATGAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCTTCTTCTCCAAACGTGGATTGAGGTCTCAGGTTCTCTGCCAAAGA
TGTTGCAAGCAGCTGAAGGAGCAGCAGATGGTGTAGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACCTCAA
CCGGTACATCCCCACAGCCGCGCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCCTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGACAGGTTGAGGAAGCTGCTCCA
GAAGCGCTCGGAAGGGGAGCTCTCATATGGCGCGTGTGCTGCGGCATATGGACTTTTAATAATGTTTTTGA
TTTCGTATTCTTTTATTCCACTGTGTAAAGTGTAGACATTTTCCAATTTAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAATTTTATTAGCCGACTGCCAGAGAAGTGGGAATGGTATAGGATTGTCCC
CAAGTGTCCATGTAACTTTTGTTTTAACTTTTGCACCTTCTCAGTGTGTATGCGGTGTCAGCCGTCTCACCTGT
TTCCCCACAAAGGAATTTTCTCACTCTGGTTGGAAGCACAACACTGAAATGTCTACGTTTCAATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTTGTTTCCCTTATTTTAAAGTGATTTTTT
AAGGACAGAACTTCTTCCAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTAG
TCCACTTGGGTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCTTGCACTGATGTCCGT
TGTCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATCACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCTTCTGCGTCACCACT
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTCCGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTGTTGAAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCTGGAGATGAGCACCTCTCTCTGGCCTTTAGGGAGTCCCCCTTATAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCTGGGGGTGCGTGCAGCCTGTCCGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCTGCAAGACAGGGCCACCGCCACAGCCCGGACAGGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCTATCACACG
TGGCCTTGTCTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAACCTGATGCCCTCCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTGTCTGCTACAGAGGGGAGAGGCTCCTGAGACCTGATGCCCTCCTACCCACATGGTTCTC
GCAGGCAGGCAGCTGTACCAAGCTGGTGGGACAGGGGCTGGAAGGCACAGGCTCAGGAGGAGCCCCATAGTC
CCGCTGCAGCTGTAAACATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAATGGCATAACTGAGATAAGGTGA

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FIGURE 1380B

ATAAGTGACAAATAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1381

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWVRVILASNRGT
LMELGISPIVITSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLDELLQKGYGLSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIP IILQSALVSN
LYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYYLSPPEFSGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

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FIGURE 1382

AGGGGGCGAAGGCGCGGTGGTGAGGAAGATACTTTGGTTAGTGACCACATCGCAGCATGTTGAGTCAAGTTTAC
CGCTGTGGGTTCAGCCCTTCAACCAACATCTTCTGCCCTGGGTCAAGTGTACAACCGTCTTCAGATCTCATTGT
ATCCAGCCTTCAGTCATCAGACATGTTTCGTTCTTGGAGCAACATCCCGTTTATCACTGTACCCCTCAGTCGTACA
CATGGAAGTTCCTTCCCCACCGCAGTGAGCTGAAGCATGCCAAGAGAATCGTGGTGAAGCTCGGCAGTCCCGTG
GTGACCCGAGGGGATGAATGTGGCCTGGCCCTGGGGCGCTTGGCATCTATTGTTGAGCAGGTATCAGTGCTGCAG
AATCAGGGCAGAGAGATGATGCTGGTGACCAGTGGAGCCGTAGCCTTTGGCAAACAACGCTTGCGCCATGAGATC
CTTCTGTCTCAGAGCGTGCAGGAGCCCTCCACTCGGGGCAGAACAGCTGAAAGAAATGGCAATTCCAGTCTTA
GAGGCAGCAGCCTGTGCAGCTGCCGGACAGAGTGGGCTGATGGCCTTGTATGAGGCTATGTTTACCCAGTACAGC
ATCTGTGCTGCCAGATTTTGGTGACCAATTTGGATTTCATGATGAGCAGAAGCGCCGGAACCTCAATGGAACA
CTTCATGAACCTCCTTAGAATGAACATTGTCCCCATTGTCAACACAAATGATGCTGTTGTCCCCCAGCTGAGCCC
AACAGTGACCTGCAGGGGGTAAATGTTATTAGTGTTAAAGATAATGATAGCCTGGCTGCCCGACTGGCTGTGGAA
ATGAAAAGTGTCTCTTATTGTTCTTTTCAGATGTAGAAGGCCTTTTTCAGAGCCCCCAGGTTTCAGATGATGCA
AAGCTTATTGATATATTTTATCCCGAGATCAGCAGTCTGTGACATTGGAACCAAGTCTAGAGTGGGAATGGGT
GGCATGGAAGCCAAGGTGAAAGCAGCCCTCTGGGCTTTGCAAGGTGGCACTTCTGTGTTATTGCCAATGGAACC
CAGCCAAAGGTGTCTGGGCACGTATCACAGACATTGTGGAGGGGAAGAAAGTTGGTACCTTCTTTTCAGAAGTA
AAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAGAAATGGCGCGATCTGGAGGAAGGATGTTGGCCACCTTGGAA
CCTGAGCAGAGAGCAGAAATTATCCATCATCTGGCTGATCTGTTGACGGACCAGCGTGATGAGATCCTGTTAGCC
AACAAAAAGACTTGGAGGAGCAGAGGGGAGACTTGCAGCTCCTCTGCTGAAACGTTTAAAGCCTCTCCACATCC
AAATTGAACAGCCTGGCCATCGGTCTGCGACAGATCGCAGCCTCCTCCAGGACAGCGTGGGACGTGTTTTCGCG
CGCAGCCGAATCGCCAAAAGTTGAACTGGAACAAGTGACTGTCCCAATTGGAGTCTGCTGGTGATCTTTGAA
TCTCGTCTGACTGTCTACCCAGGTGGCAGCTTTGGCTATCGCAAGTGGCAATGGCTTGTACTCAAAGGAGGG
AAGGAGGCTGCACACAGCAACCGGATTCTCCACCTCTGACCCAGGAGGCTCTCTCAATCCATGGAGTCAAGGAG
GCCGTGCAACTGGTGAATACCAGAGAAGAAGTTGAAGATCTTTGCCGCTAGACAAAATGATAGATCTGATCATT
CCACGTGGCTCTTCCAGCTGGTCAGAGACATCCAGAAAGCTGCTAAGGGGATTCCAGTGATGGGGCAGACGGAA
GGGATCTGTACATGTATGTGGATTCCGAGGCCAGTGTGATAAGGTCACAGGCTAGTCAGAGACTCTAAATGT
GAATATCCAGCTGCCTGTAATGCTTTGGAGACTTTGTTAATCCACCGGATCTGCTCAGGACACCATTATTGAC
CAGATCATTGATATGCTGAGAGTGGAAACAGGTAAATTCATGCAGGCCCAAATTTGGCTCCTATCTGACCTTC
AGCCCCCTCCGAAGTGAAGTCACTCCGAAGTGAATGAGGACCTGGAAATATGCATTGAAGTAGTGGACAACGTT
CAGGATGCCATTGACCACATCCACAAGTATGGCAGTCCACACGGATGTCATCGTCACAGAGGACGAAAACACA
GCGGAGTTCTTCTGCAGCACGTAGACAGTGCCTGTGTGTTCTGGAATGCCAGCACTCGCTTTTCTGATGGTTAC
CGCTTTGGACTGGGAGCTGAAGTGGGAATCAGTACATCGAGAATCCACGCCCCGGGGACCAGTAGGACTTGAGGGA
CTGCTTACTACTAAGTGGCTGCTGCGAGGGAAGGACCAGTGGTCTCAGATTTCTCAGAGCATGGAAGTTTAAAA
TATCTTCATGAGAACCCTCCCTATTCTCAGAGAAACACCAACTGAAAAGAGCCAGGAAAACCCGGGAATTTTCCA
AAAGGTCTTCAGTTAAACTTGTCTTATCTCAGGAGAGAGCCCGCTCTTGTCTCCAGTTCCTGGTAGGGTCTGC
CTGTTGGAAGTGTACCTGGATGCTTCTGGGCTCCGTTTGGCAATAGCAATCTTGGCTGATGTGCACAGTCTGGC
TCCAGCTCACCTTTTTTTTTTAAAGTAAGAAAATAGTTGCTACCGATAGGGACTTTGCCAAGTCCAATTATCTT
CTAGGATTGAAAGGTGCATTTTCCCATAAAAAAGGCGAGGAAAACCCATGGCTGCTTTGTGTACCTCAGTGAC
TTACAGTCCCCCTTCGCATTTAGTTGGTACTAGAGCCAGTCATCCTTAACAAATCTTTTCGCGTTTTATTTCTTT
CACATGTAATCATCTTCAAAAAGGAAGATTGGAATTTTAGAAAAGGGGCAACTCTTCTTTTATGATTCTCAT
CAGAAAGTCACAAAATCGATGGAATCATTCCACTGGGAAGATTGACCTTTTGTATTTATTTGTGGGGTAAATT
AATAAGCATTCCAGATGCTTGCAGCTTCTGCATCCAGGAGATGCTGTGTCCCCGTGATGCAGCTGGAACCCAA
GCTGCAGCAGGAGATGCAAGTTTCAGGATGTTCCCACTGAGCTGGAGGAATATCTACAGCAGTGATGCTTGAAA
TTTTTGTATGAATTATTTTGTGCTCCTACCTTTTCTCCAAAACAAAATTAGAGGATTATTTTAATACTTTGG
ATTCTTCCCCCTTTTTTGGAGAAATAAGTTTTTTATG

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FIGURE 1383

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKSFAHRSELKHAKRIVV
KLGSVVTRGDECGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKE
MAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDHFHDEQKRRNLNGTLHELLRMNIVPIVNTNDV
VPPAEPNSDLQGVNVISVKDNDSLAAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQOSVTFGTK
SRVGMGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVIDIVEGKKVGTFFSEVKPAGPTVEQQGEMARSGGR
MLATLEPEQRAEIIHHLADLLTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDS
VGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAHSNRILHLLTQEALS
IHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYVDSEASVDKVT
VRDSKCEYPACNALETLLIHRDLLRTPFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCI
EVVDNVQDAIDHIHKYGSSHTDVIVTEDENTAEFFLQHVDSACVFWNASTRFSGYRFGGLGAEVGISTSRIHARG
PVGLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIQRNTN

GAGAGGCGCCAGGCGGGCGGGCGGGCGGCCAGCTTCTTCTTTCTCGCACAGCGGCCGCCCTGCTCGAGT
CCCGCGTCGCCATGGCCGCGGTTCCTCGAGTTGCTGCAGCAGCAGGAGGAGCCGAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGACACAAAGACCACACTGCCACGTTTCAGAGCCCAGAGTTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAAATTTG
CCAAGATGAAACAAGAACTGGAAGCTGAGTATCTCGTGTGTTTTAAGAAGACTGTGTCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCTGTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAGIGTGGTGAAAAAGTGCTGATGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAACATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAAACTAAGGAAAGTAGAGGGTCGAGTTTTTCATCAGATGAAGATTTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAACT
CAAACAAGCTCTGGATAAGGCCCGGTATAAGAGCAAGACGTCGAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACCTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGCCAGCAT
TTAGAAAGAACTAATTGAAATGTCTGAAC TGAAATAAAACATGCCAGGAACAATGTCTCCCTTTTGAGAGCT
GTATTGACTTGTTCAAGAATAACTTGATATGCCCTTCACTCAGAAGAAAAGAAATGAATGTGAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTTGTGCAATTTAATACCTCTGGGCAGAAATCCAAATACTGGGTTCTCCCGTAGTTCTGCTTTAGTTACTAA
GAAAGGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGT CAGGGAGGTGCCAGTTACAGCAGGTGATT CAGCTACTTGAGGTCGGTAACAGACCTTCCATTCCCTCACT
GAAGGTGGGGTTTTGTGTTTTTGTGTTTGGCCCTGTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAAATATCTACAGGTATATATGGAACAAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTGTTTTTTT
ATAAAGCATATAATAAAATAATCGTGCTACT

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FIGURE 1385

MAAVPELLQQQEEDRSKLSVSVDLNVDPQLQIDIPDALSERDKVKFTVHTKTTLPFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGECSMTKEEFAKMQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHVLFLEYDQDLSVRRKNTKEMFGGFFKSUVKSADEVLF TGVKEVDDFFEQKNFLINYNNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYML
NIEAAKDLLYRRTKALIDYENSNKALDKARLKSVDKLAEAHQECCQKFEQLSESAKEELINFKRKRVAAFRKN
LIEMSELEIKHARNNVSLQSCIDLFKN

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FIGURE 1386

GCCGCGCGCTGTGTCTCCGCTGCGTCCGCGAGGCCCGAGTGTGTCAGGGACAAAAGCCTCCGCCTGCTCCCGCA
GCCGGGGCTCATCTGCCGCGCCGCCGCGCTGAGGAGAGTTGCCGCGCTGCCGCGCGTGAGGATCTGAGAGCC
ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAATGGATCTGTACATCAA
AAGGATGGATTAAACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATATGCATATACTGCC
ATGTCAGATTCTACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCTATTCTTTGGGTGAAGCTGCTTGG
TCTACGGGGGGTGACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCTTA
CCAGATGCAATGTTTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCATGGTTTTAATTTCTTT
CCCAGTGGGATTGACTTCTCAGCATGGGGAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGT
AGCAATTATGCTTATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACC
CTCAATAAGGCTCCTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCA
AGCAATGTTCCAAAAGTTGTAGGTTCTGCTGTTGGTAGCGGGTCCATTACTAGTAACATCGTGGCTTCCAATAGT
TTGCCCTCCAGCCACCATTGCTCCTCCAAAACCAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAA
CCTAAACTGAAGACCAAGAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCGATAAAGCATAACATGGATATT
GGAAGTTGGGATAACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTAGCCAACC
CAGGGGTCTCCTCAGCCTGTAGGTGAGCAGGCTAACAATAGCCACCAGTGGCTCAGGCATCAGTAGGGCAACAG
ACACAGCCATTGCTCCTCCACTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGC
TGGGTGACCACTCGGAACCGTGGCAGTGGGTTCCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAG
GCTGGTTCTGGATCTACTCCTTCAGAACCCACCCAGTGTGGAGAAGCTTCGGTCCATTAAATACTATAACCC
AAAGATTTGACTGGAATCTGAAACATGGCCGGGTTTTATCATTAAGAGCTACTCTGAGGACGATATTCACCGT
TCCATTAACTATAATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCCATGAAC
GGGAAAGGCCCCGTTTACTTCTTTTCAAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCT
GCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCGTTTTGATGTCAGGTGGATT
TTTGTGAAGGACGTTCCCAATAGCCAATGCGACACATTGCGCTAGAGAACAACGAGAATAAACCAGTGACCAAC
TCTAGGGACACTCAGGAAGTGCTCTGGAAGGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACC
ACTTCCATTTTGTAGTACTTCTCACACTATGAGAAACGCCAAAGAGGAAGAAGAAAGTGTTAAAAAGGAACGTCA
AGGTGCTGGGAAATAAAAGGCAGTTCTACACAGACTGCAGCAACGGTGCATCTGCATATCCTAAGAGGAAAAAA
TGACCTTCAAGAGAATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAGT
ATTGGAATTTACAAAAGACATAGGACTTAAGTGGAAATGAAAAGAAAAGAAAAAGAAAAAACTAAACAAAAAA
TCCCTCTAGGTAGTTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTTGTGATTTTCAGAGCATAATGCTATG
TTTTTTGTCTTTTACTATGTTTTTCGGATTTTTAAGTCCGTAAGTGCATACAGTTTTCTTAATTTTTTAAACCC
TTTCTCTCTCCATTGGACATTTGCACTTGGAGAACACTTGAGTTGTGAAGGTTTTGGGCATCCACCCAGAAA
GTGGGAATTTGATTTTATCCTTCCGAAGTGAAGAACATTTTTATGAAGAATTTTTGTCTAGGAGAATATAACAG
TGTTACCCAAGGTTGTGCTTTAAGGGTGGTTCATTTTCTCTGACCTTTTGTACTCAAAGTAAAGTACTAGGAG
TCCTAAGAAATGTTCTGTTCTGTACATTATACTGATTAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGT
GGTAAAAACTCGTTTACAGAAATGCATTTTGAAGAGAAAAATACTGTAAACGTGTCGTGAATGTTTCTTCAGT
TTCTTGTTCAGCCAATGAGGAAAGGGCATTGCCTTTCTTTTACCATTAAATCACTTCTCAATAAACGTGAGATCC
TGTTGAGCATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1387

MSASSLLEQRPKGQGNKVQNGSVHQKDGLNDDDFEPYLSPOARPNNAYTAMSDSYLPSYYSFSGFSYSLGEAAW
STGGDTAMPYLTSTYQQLSNGEPHFLEPDAMFGQPGALGSTPFLGQHGFNFPPSGIDFSAWGNSSQGGSTQSSGYS
SNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQMAALKLGSTEVASNVPKVVGSVAVGSGSITSNIVASNS
LPPATIAPPKPASWADIASKPAKQQPKLTKNGIAGSSLPPPPPIKHNMDIGTWDNKGPAKAPSQALVQNIQOPT
QGSFPQVGGQANNSFPVQAQASVGQQTQPLPPPPQPAQLSVQQQAAQPTRWVAPRNRGSGFGHNGVDGNGVGQSQ
AGSGSTPSEPHPVLEKLRSINNYPKDFDWNLKHGRVFIKSYSEDDIHRSIKYNIWCSSTEHCNKRLDAAYRSMN
GKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAGVWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVTN
SRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQRGRKC

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FIGURE 1388

GTGAAGAGAGCGCGCGGCTGACTGAGCTACGGTTCTGGCTGCGTCTAGAGGCATCCGGGGCAGTAAAACCGCTG
CGATCGCGGAGCGCGCGGCCAGGCCGAGAGGCAGGCCGGGCGAGGGGTGTCGGACGCAGGGCGCTGGGCCGGGTTT
CGGCTTCGGCCACAGCTTTTTTCTCAAGGTGCAATGAAGCCTTCCACACTTTCTGTGTGTCCTTCTGGTGTT
TGGGAGTGTCTCTGAAGCCAAGTTTGATGATTTTGGAGATGAGGAGGACATAGTAGAGTATGATGATAATGACTT
CGCTGAATTTGAGGATGTCTATGGAAGACTCTGTTACTGAATCTCCTCAACGGGTCATAATCACTGAAGATGATGA
AGATGAGACCACTGTGGAGTTGGAAGGGCAGGATGAAAACCAAGAAGGAGATTTTGAAGATGCAGATACCCAGGA
GGGAGATACTGAGAGTGAACCATATGATGATGAAGAATTTGAAGGTTATGAAGACAAACCAGATACTTCTTCTAG
CAAAAATAAAGACCCAATAACGATTGTTGATGTTCTGTCACACCTCCAGAACAGCTGGGAGAGTTATTATCTAGA
AATTTTGATGGTGACTGGTCTGCTTGTATATCATGAATTACATCATTGGGAAGAATAAAAACAGTCGCCTTGC
ACAGGCCTGGTTTTAACTCATAGGGAGCTTTTGGAGAGCAACTTTACTTTAGTGGGGGATGATGGAACCTAACA
AGAAGCCACAAGCACAGGAAAGTTGAACCAGGAGAATGAGCACATCTATAACCTGTGGTGTCTGGTCGAGTGTG
CTGTGAGGGCATGCTTATCCAGCTGAGGTTCTCAAGAGACAAGACTTACTGAATGTCCTGGCCCGGATGATGAG
GCCAGTGAGTGATCAAGTGCAAATAAAAGTAACCATGAATGATGAAGACATGGATACCTACGTATTTGCTGTTGG
CCACGGAAAGCCTTGGTGGGACTACAGAAAGAGATGCAGGATTTGAGTGAGTTTGTAGTGATAAACCTAAGTC
TGGAGCAAAGTATGGACTGCCGGACTCTTTGGCCATCCTGTCAGAGATGGGAGAAGTCACAGACGGAATGATGGA
TACAAAGATGGTTCACTTTCTTACACACTATGCTGACAAGATTGAATCTGTTCACTTTTTCAGACCAGTTCTCTGG
TCCAAAATTTATGCAAGAGGAAGGTCAGCCTTTAAAGCTACCTGACACTAAGAGGACACTGTTGTTACATTTAA
TGTGCTGGCTCAGGTAACACTTACCCAAAGGATATGGAGGCACTGCTACCCCTGATGAACATGGTGATTTATTC
TATTGATAAAGCCAAAAGTTCCGACTCAACAGAGAAGGCAACAAAAGCAGATAAGAACCGTCCCCGAGTAGA
AGAGAACTTCTTGAACTGACACATGTGCAAGACAGGAAGCAGCACAGTCTCGGCGGGAGGAGAAAAAAGAGC
AGAGAAGGAGCGAATCATGAATGAGGAAGATCTGAGAAACAGCGCAGGCTGGAGGAGGCTGCATTGAGCGGTGC
AAAAAAGAGTTGGAAGAAGCAAATGAAATGAAACAAATCAAAGTGAAAGCCATGTAAAGCCATCCCAGAGA
TTTGAGTTCTGATGCCACCTGTAAGCTCTGAATTCACAGGAAACATGAAAAACGCCAGTCCATTTCTCAACCTTA
AATTTAGACAGTCTTGGGCACTGAGAAATCCTTATTTTCATCATCTACTCTGTTTGGGGTTTGGGGTTTACAG
AGATTGAAGATACCTGGAAGGGCTCTGTTTCAAGAAATTTTTTTTCCAGATAATCAAATTATTTTGATTATTTT
ATAAAGGAATGATCTATGAAATCTGTGTAGGTTTAAATATTTTAAAAATTATAATACAAATCATCAGTGCTTT
TAGTACTTCAGTGTTTAAAGAAATACCATGAAATTTATAGGTAGATAACCAGATTGTTGCTTTTTGTTTTAAACCA
AGCAGTTGAAATGGCTATAAGACTGACTCTAAACCAAGATTCTGCAAATAATGATTGGAATTGCACAATAAACA
TTGCTTGATGTTTTCTGTATGTCTACATTAACTTGAGAAAAAGTAAAAATTAGAACACTGTATGTAGTAATGA
AATTTAGGGACCCAGAACATAATGTAGTATATGTTTTAGGTGGGAGATGCTGATAACAAAATTAATAGGAAGT
CTGTAGGCATTAGGATACTGACATGTACATGGAATAATCTAGGGACAGGAGCATCATTTTTCTTACCTGATAC
CACGAACAGTGACAACGTGAATGCTGTATTTAAGTGGTGTATGTTTATTTTCTTGAGTAACAAATGCATGAA
AAATTAATGCTTCACCTAGGTAAGATCATTGGTCTGTGTGAAATCACAAATGTTTTCTTCTTGGTTGCTGCA
GCCTGGGTGGATGTTTATGGAGAAGCTCTGTTCTCTATATTATGGCTGTGTGCCGTTGCTTCTCCCTCTGCTTTT
ATCTTTTCCACAGTTGAGGCTGGGTATGTTCTTTCAAAGAAATGGCCATGAATATGTGTAAGTATACTTTTGAAA
ATGAGCTTTCCTAACTATTGAGAGTTCTTTCCACCTCTGCGGAACCAACTCTTGGAGGAGAGGCCCATGTATC
TGCACGAGCACTTAGCTTGTTGATCTCTGCATTTTATAAATGCTTCTTACCAAGAAAGCATTTTTAGGTCATT
GCTTGTAACAGGTAATTTTGGCCGGGATGGGTAAGGGTTGGGTTTTCTGGTGGGAGTGGGGTGGTGGGATTTT
TTGTTGATGCTTTAGTGCAGGCCTGTTCTGAGGCAATAACAAGTTGCTGTGAAAACAGCATGTGCTGCTGCCTTT
GTAAGTGCATGGAACCTTTTACATGGGTTTTCTCCAAGTTAATACAGAAATATGTAACTGAGAGATGCAAT
GTAATATTTTTAACAGTTCATGAAGTTGTTATTAATAAATACTAACATAAACTTAATTACTTTAATATTATATAA
TTATAGTAGTGGCCTTGTTTTACAAACCTTTAAATTACATTTTAGAAATCAAAGTTGATAGTCTTAGTTATCTTT
TGAGTAAGAAAAGCTTTCTAAAGTCCCATACATTTGGACCATGGCAGCTAATTTTGTAACCTTAAGCATTATAT
GAACTACCTATGGACATCTATTAAAGTGATTGACAAAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1389

MKAFHTFCVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDSVTESPQRVIITEDDEDETTVELEGQD
ENQEGDFEDADTQEGDTESEPYDDEEFEGYEDKPD TSSSKNKDPITIVDPAHLQNSWESYYLEILMVTGLLAYI
MNYIIGKNKNSRLAQAWFNTHRELLESNFTLVGDDGTNKEATSTGKLNQENEHIYNLWCSEGRVCCGMLIQLRFL
KRQDLLNLARMRPVSDQVQIKVTMNDMDTYVFAVGTRKALVRLQEMQDLSEFCSDKPKSGAKYGLPDSLA
ILSEMGEVTDGMMDTKMVHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKRLLFTFNVP GSGNTY PKD
MEALLPLMNMVIYSIDKAKKFRLNREGKQKADKNRARVEENFLKLTHVQRQEAAQSRREEKKRAEKERIMNEEDP
EKQRRLEEAALRRAKKKLEKKQMKMKQIKVKAM

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FIGURE 1390A

GGCAGCGAGCGAGGTTCTGGGCTGGTGTGTTCCGTTGCGAGCTGCGAGCTGCGATCTCTGTGGTAGGCCCAGAAGTGTA
TGCTGACTTTGTAAGAGTAAGAAGCCAGTGGTGCTGCGGGTGTTCTTTTGGGGTAGTGCTGGGATCCAGTACGAG
TTGAATCATTGTTCAAATAAGGTGTAATTGAAAAGTGATCCTCTCTTCAGAGATGTCAAAAACAACAAATCCAA
GTCTGGATCTCGCTCTTCTCGCTCAAGATCTGCATCAAGATCTCGTTCTCGTTTCATTTTCGAAGTCTCGGTCCCCG
AAGCCGATCTCTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTCTAGGTCTCGTTCCAGATCATATTCTCCAGCTCA
TAACAGAGAAAAGAAACCACCCAAGAGTATATCAGAATCGGGATTTCCGAGGTCAACACAGAGGCTATAGAAGGCC
CTATTATTTCCGTGGGCGTAACAGAGGCTTTTTATCCATGGGGCCAAATAAACCAGGAGGCTATGGAACTACCG
CTCAAAATTGGCAGAATTACCGGCAAGCATACAGTCTCTCGTCGAGGCCGTTCAAGATCCCCGGTCCCCAAAGAGAAG
GTCCCCTTACCAAGGTCCAGGAGCCATTCTAGAACTCTGATAAGTCGTCTTCTGACCGGTCAAGGCGCTCCTC
ATCTCCCCGTTCTTCTCTCAACCATAGCCGAGTTGAATCTTCTAAGCGCAAGTCTGCAAAGGAGAAAAAGTCCTC
TTCTAAGGATAGCCGGCCATCTCAGGCTGCCGGGGATAACCAGGGAGATGAGGTCAAGGAGCAGACATTCTCTGC
AGGCACCTCTCAAGATACAAAAGCATCTGAGAGCTCGAAGCCATGGCCAGATGCCACCTACGGCACTGGTCTCTGC
ATCACGGGCGCTCAGCAGTTTCTGAGCTGAGTCTCGGGAGCGAAGCCAGCTCTCAAAGCCCCCTCCAGTCTGT
GGTGGTGAGGCGGCGGTCACCCCGTCTAGCCCGTGCCAAAACCTAGTCTCCACTTTCCAGCACATCCCAGAT
GGGCTCAACTCTGCCGAGTGGTGCCGGGTATCAGTCTGGGACACACCAAGGTCAGTTCGACCATGGTTCTGGGT
CCTGAGTCCATCCAAAAAGAGCCCTGTGGGTAAAGAGTCCACCATCCACTGGCTCCACATATGGCTCATCTCAGAA
GGAGGAGAGTGCTGCTTCAGGAGGAGCAGCCTATACAAAGAGGTATCTAGAAGAGCAGAAGACAGAGAATGGAAA
AGATAAGGAACAGAAACAAACAAATACCGATAAAGAAAAATAAAAGAGAAAGGGAGCTTCTCTGACACAGGCTT
GGGTGATGGAAAAATGAAATCTGATTCTTTTGCTCCCAAACCTGATTCTGAGAAGCCTTTTCGGGGCAGTCAGTC
TCCCAAAGGTATAAGTCCGAGATGACTTTGAGAAGAAGATGGCTGACTCCACAAGGAGGAGATGGATGATCA
AGATAAGGACAAGCTAAGGGAAGAAAGGAATCTGAGTTTGATGATGAACCCAAATTTATGTCTAAAGTCATAGG
TGCAACAAAAACCAGGAGGAGGAGAAGTCAGGCAAATGGGAGGGCCTGGTATATGCACCTCCAGGGAAGGAAAA
GCAGAGAAAAACAGAGGAGCTGGAGGAGGAGTCTTTCCAGAGAGATCCAAAAAGGAAGATCGGGGCAAGAGAAG
CGAAGGTGGGCACAGGGGCTTTGTGCCTGAGAAGAATTTCCGAGTGACTGCTTATAAAGCAGTCCAGGAGAAAA
CTCATCACCTCCCCAAGAAAGACCTCTGAGAGCCGAGACAAGCTGGGAGCGAAAGGAGATTTCCACAGGAAA
GICTTCTTTTCCATTACTCGAGAGGCACAGGTCAATGTCCGGATGGACTCTTTTGATGAGGACCTCGCACGACC
CAGTGGCTTATTGGCTCAGGAACGCAAGCTTTGCCGAGATCTAGTCCATAGCAACAAAAAGGAACAGGAGTTTCG
TTCCATTTTCCAGCACATACAATCAGCTCAGTCTCAGCGTAGCCCCCTCAGAACTGTTTGCCCAACATATAGTGAC
CATTGTTCCACCATGTTAAAGAGCATCACTTTGGGTCTCAGGAATGACATTACATGAACGCTTTACTAAATACCT
AAAGAGAGGAACTGAGCAGGAGGCAGCCAAAAACAAGAAAAGCCCAGAGATACACAGGAGAATAGACATTTCCCC
CAGTACATTACAGAAAACATGGTTTGGCTCATGATGAAATGAAAAGTCCCCGGGAACCTGGCTACAAGGCTGAGGG
AAAATACAAAGATGATCCTGTTGATCTCCGCCCTTGATATTGAACGTCGTAAAAAACATAAGGACAGAGATCTTAA
ACGAGGTAATTCGAGAGAATCAGTGGATTCCCGAGACTCCAGTCACTCAAGGAAAGGTCAGCTGAAAAAACAGA
GAAACTCATAAAGGATCAAGAAAACAGAAGAAGCATCGGAGAGCAAGAGACAGGTCCAGATCCTCCTCTCTC
CTCCCAGTCACTCTACTCTACAAAGCAGAAGAGTACATGGAAGACAGAGGAAAGAGAGGAGAGCACCACGGG
CTTTGACAAATCAAGACTGGGGACCAAAGACTTTGTGGGTCTCAAGTGAAAGAGGAGGTGGCAGAGCTCGAGGAAC
CTTTCAGTTTCGAGCCAGGAAAGAGGCTGGGGCAGAGGCAACTACTCTGGGAACAATAACAACACAGCAACAA
CGATTTTCAAAAAAGAAACGGGAAGAGGAGTGGGACCCAGAGTACACACCCAAAAAGCAAGAAGTATTACTTGCA
TGATAGCCGTGAAGGCGAAGGCAGTGACAAGTGGGTGAGCCGGGGCCGGGGCCGAGGAGCCTTTCCTCGGGGTG
GGGCCGGTTCATGTTCCGGAAATCAAGTACCAGCCCCAAGTGGGCCCATGACAAGTTCAGTGGGGAGGAAGGGGA
GATTGAAGACGACGAGAGTGGGACAGAGAACCGAGAAGAGAAGGACAATATACAGCCCAACACAGCAACAA
ACCTTTGACGGGATTCTGCCCAGGGGAGAGAGGCGCTGGGAAGATGGCTGGTGAGGAGCTTAACAGAGGAACCT
CAAGAAGATTCTGAAAATCTACCCCCACCCCCACCAGCCGCACAGATTGTACTACCGCAGAGGCATCCCTGG
CGCTGTCTCCCACTGGACAGAGGAGGCTGGCCATGGGGCCAGGGGTCAGGCCACAGCTTTTGAGCAGAATACAAC
GCATTGGGCTTTAGCTGTTTTTCTCATTTGTTGGTGTGTGGGGTGGGGGCAGGGGTAGGGCGGGAGAGCGATGCT
TGGATTTTTGTTTTCTATTAGAAACCAACAGTTTTGTTCTAATTTTCAATTCATTGGAGCTAAGATGACTAATTT
GATGATTTTCGATCTCTTTTCCCTGTCTGATTTTAAAGCCCCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AGGCATATGTAGTAATATTAGAAACATTTAATTGGGAACTTTGATTCTTGAAGAGAAAAACAAGCATGTGA

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FIGURE 1390B

ATAAACTTTGCTCGTGCC

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FIGURE 1391

MSKTNKSKSGSRSSRSASRSRSRFSKSRSRSLSRSRKRLSSRSRSRSPAHNRERNHPRVYQNRDFRG
HNRGYRRPYFRGRNRGFYPWGQYNRGGYGNYSNWQNYRQAYSPRRGRSRSPKRRSPSPRSRSHSRNSDKSS
SDRSRRSSSSSSNHSRVESSKRKSAKEKKSSSKDSRPSQAAGDNQGDEVKEQTFSGGTSQDTKASESSKPWPD
ATYGTGSASRASAVSELSPRERSPALKSPLQSVVRRRSPRPSPVPKPSPLSSTSQMGSTLPSGAGYQSGTHQG
QFDHGSGSLSPSKKSPVGKSPSTGSTYGSSQKEESAASGGAAYTKRYLEEQTENGKDKEQQTNTDKEKIKEK
GSFSDTGLGDGKMKSDSFAPKTDSEKPFGRGSQSPKRYKLRDDFEKKMADFHKEEMDDQDKAKGRKESEFDDEP
KFMSKIVIGANKNQEESKSGKWEGLVYAPPGKEKQRKTEELEEEESFPERSKKEDRGKRSEGGHGRGVPEKNFRVTA
YKAVQEKSSPPPRKTSESRDKLGAKGDFPTGKSSFSITREAQVNVVRMDSFDEDLARP SGLLAQERKLCRDLVHS
NKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVTIVHHVKEHHFGSSGRTLHERFTKYLKRGTEQEAANKKSPEI
HRRIDISPSTFRKHGLAHDEMKSPPREPGYKAEGKYKDDPVDLRDLIERRKKHKERDLKRGKSRESVDSRDSHSHR
ERSAEKTEKTHKGSKKQKKHRRARDRSRSSSSSSQSSHSYKAEYETEETEEREESTTGFDKSRGLTKDFVGPSE
GGRRARGTFQFRARGRGWGRGNYSNNNNNSNNDFOQRNREEEWDPEYTPKSKKYLLHDDREGEESDKWVSRGRG
RGAFPRGRGRFMFRKSSTSPKWAHDKFSGEEGEIEDDESGTENREEKDNIQPTTE

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FIGURE 1392

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCTCGTTGTCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACCATGAAGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCCCTATGAACCAAGTGTGGTTGGAGTTGATGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACTTAAATCTACTAAT
ATTTCAATTTACAAACATGGTTTTAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAACT
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGCCGAGAAGCAATGGAATGGGTAATACATAAATTAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGCAGAGAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAAACTGACTTATATATTTATTTGTTATTTTAAAAATAC
AACTATATTTGGGTAGTTTTTTTTTTTTTTTTTTTGGATAAGTTGGTGTAAAGCTATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAGGGATCATCTGAAATTAATGTTGTTTGAATTAATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAATTCAACAAGAACTCCTTGGAACTGGTATTGATATTCAGTCTCCTTAAGGTAGATTTT
TCAAGCTTTTCATACATTGGAACCTCCACCTGACITTTGGACCAACCCAGAACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTCGCCCTGCTGTACACTTCAGCAGCTTGACAAAGGGAGCTCACTTAAAAGGAGAAATGTGTAGTT
TTAAATATATTTTGTGTAAATACCTTACTATGCTATAAACCCACCATTAAAAACCAGTGTTTTGATTGGTACT
TAAATATTTTGGAGTGAATAATTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAACTTAGTAAAGGTATTAACCTCCTTGGATTGTACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAATAAAGTCATTACCTGAGTTTGCAGTGCCTAACTTA
AACAGAAGAACAGCTGTTACATCTTTTAGCATTTTACATTTGCCCTAACTTAAAAATTGCCATGTGTCAAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTGAAATTACTCAAATGATGTCTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTAAATAATATGGTGCCACTGCAGGATTTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGGCCTGAAACTAACCCTGAGTGAATTGCACTGCAGGTTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAACCTACTAAATAATAGCTTTGACATTTGCAATTGTTGCATAGAGACTATTTTGTAGAGAAGATGATTAGC
TCTTGCCTTTTATTTACAGTGCTTAGTGATAAACTTCTAGTCATGTTTCTATCCAAGAGACCAGTTAATATA
TGTACATAAACCACAGAAATAGTATAACACACTATTTTAAATTATCGTTTCTTACTTAAATTTTGTGTTAGCTT
AAGACTTCTTAGGACATTTGTAAAGCAGGTAAATTTAATAAGGTTTCTGATTTTTTTTTGTAACCGGAGATAG
TTTTTACAAGTGAATAACATTTAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTTCTGAAAAAGGTGTAATGCCCTAATATTTTAAATCCTTATCCTTTGATT
TTTTAAAACTGACCTATTGATAAACTATAAATTTTCAATTTCCAGTGCAGTTAGTTACCTTTTTAAACATAAA
TGCACAACAAGCAAATGAATTTAAGAGAACTAACTGGAATAAGTGTTTCATAAATGAAACCTTGGACTATTTAA
TAAAGTTGAAATGTGAATTAAGGAAACTTTTGTAAATAAAAACTTTCTTTTAAAAAAA

1535/2682
FIGURE 1393

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLDHRIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

1536/2682
FIGURE 1394

ATATGATCCGCTCGGCTTCTCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCCGCGCTCGTCCGTCTCCCGT
CCGTTCTCGTCTCCCGGCCGCCATCATGCTGGCGCTCATCTCCCGCTGCTGGACTGGTTCCGTTCTGCTCTCTG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTGAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACATAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCCAGTGTAGTGTGTTGAAAACAAGAGAGATCTTCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTTCAGCATTCAAAATCTAGAAGAAGCTGAAGCATCTCTTGAAGT
CTTCCAGTCTCTTCTGGCTATAATCTAGAAATTATTGTCCGTTCTCTGGAAGTAATCCCGAATAACGGTCTCTC
CTAAACCCAGAAATGCTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCTCTC
ATAAAGAATCAGCTAGAGTTGTCATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAACCCTATATACTTATGACCATCTTAAATCAAGAAAAT
TGCTAATTTCCATTCTGGTCTTTCTGGGCCAGATTTTTATATTGGTTTTTCTAGTAAATGTCTATCTATAATTTT
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTCTAGTGCCACACACAGTATTT
AGAAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAACATAATGTTTATTTTATCTACAAATGCAAG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAGATATCCTGCTTTCTGAGAATCTATCACCAGATGGC
AGTTGGGATATGGGAGGAATAAGCATCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTGTTTTTCTC
TTCCGTGGTTCAGGATACTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTAGAGCATT
CCACCCATATAATAAAACCTGTGAAGATGTCAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGTGCTGCATGACACTCTTAACCTCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTACGACAAAA
GATACTTATAAAACAAATAAAAAATTTTTATTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTACTGGTG
CCATTAGACATCTTGATTATTGTGACAACCTTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAAATAATCAGTCACACAGAGAACTGAGGAAGTATGCTGTTTGTGTTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTATATAGACCCTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTCTTTTGTGAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTGCTTTTCTCCATTCATATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTGCATACTACCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAACTTGTCTACTGTTGTCAACACCATTAAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTAAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATGCTTTCCGCATTTCAGACATCCAGACGCTATTACCA
ACATTTTCTGTGCATTAACCTCTGCATGTGAAAACCTTTAACAGTTACTGAACTATGTAAATATGTGAATTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTAAAGGT
TGTATTGGCAATTTAACTTAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGAAGTTCCGAGAGGAGG
GTCTATAGACCATTTGTCAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAAAATAGAAATAA
ACTTTTAAATATCCACAG

1537/2682
FIGURE 1395

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSISCKEKNIDITLQWLIQHKSRRS

1538/2682
FIGURE 1396

GAGCGGCACAGACGAGATCTCGATCGAAGGCGAGATGCGCGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGA
TTTCGCCATGGATGAGGATGGGGACGAGAGCATTACAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGG
CTTTGGCTCCGAGGGGTCCCGAGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGG
ACCACAACGCTCTGTTGAAGGCTGGATTCTCTTTGTAAGTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACA
CGACAAATTCGCAGAATATGGGGAAATTAAAAACATTCTCAACCTCGACAGGCGAACAGGATATCTGAAGGG
GTATACTCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGACTCAATGGCCAGGATTTGAT
GGGACAGCCCATCAGCGTTGACTGGTGTGTTTGTTCGGGGTCCACCAAAGGCAAGAGGAGAGGTGGCCGAAGACG
CAGCAGAAGTCCAGACCGGAGACGTCGCTGACAGGTCCTCTGTTGTCCAGGTGTTCTCTTCAAGATTCCATTGTA
CCATGCAGCCTTGGACAAATAGGACTGGGGTGGAACTTGCTGTGTTTATATTTAATCTCTTACCGTATATGCGTA
GTATTTGAGTTGCGAATAAATGTTCCATTTTGTCTTTCTAC

1539/2682
FIGURE 1397

MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEGSRRARMREDYDSVEQDGDGDEPGPQRSVEGWILF
VTGVHEEATEEDIHDKFAEYGEIKNIHLNLDRTGYLKGTYLVEYETYKEAQAAMEGLNGQDLMGQPI SVDWCFV
RGPPKGKRRGGRRRSRSPDRRRR

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FIGURE 1398A

TGAGGCGCGGGAGGCCCCGCGCCCCGCGGCTCGCTGTGCGTGGGAGGGCGCGAGCGAACGCGGGCGAGGAGCGGCC
GAGCCGCTGAAGAGGAGCTGGGCGCCGCGCCCGCGCGCTCGGCCCGGGATCGCCTCCGCCCGGTCTTCGC
CGGCCCCGGCCCCCTGGCGAGATGCGCGTGTGGGAGGATTGGCTCAGCCACCCGCTGGGAATCGTGCAGGGATTCT
TCGCCCCAAATGGAGTTAATCCTGACTGGGAGAAGAAAGTAATTGAGTATTTTAAGGAAAAGCTGAAGGAAAATA
ATGCTCCTAAGTGGGTACCATCACTGAACGAAGTTCCCTTCATTATTTGAAACCTAATAGTTTTGTGAAATTC
GTTGCATGATTCAAGATATGTTTTGACCCTGAGTTTTACATGGGAGTTTATGAAACGGTTAACCAAAACACAAAAG
CACATGTTCTTCATTTTGGAAAATATAGAGATGTAGCAGAGTGTGGGCTCAACAAGAACTTGATTTAAACTCTC
CACGAAATACCACCTTGGAAAGACAGACTTCTATTGTGTTCCGGTGCCTGGGGAATCTACGTGGGTAAAAGAAG
CCTATGTTAATGCAACCAAGCTCGAGTCAGTCCCTCAACATCCTACACTCCTAGTCGCCACAAGAGGAGTTATG
AAGATGATGACGATATGGACCTACAGCCCAATAAGCAGAAAGACCAACATGCAGGTGCCAGACAAGCAGGGAGTG
TTGGTGGTCTTCAATGGTGTGGAGAGCCAAAACGTTTAGAAACTGAAGCTTCTACTGGGCAACAGCTGAATCTC
TGAACCTGTCTTCTCCTTTTGATTTGAAATTTCCATTGCCAGGAGAGAAGGGCCCTGCATGCCTTGTGAAGGTTT
ATGAAGATTGGGATTGTTCAAAGTAAATGACATTCTTGAGCTATATGGCATACTGTCTGTGGATCCTGTGCTGA
GTATACTGAATAATGATGAAAGGGATGCCCTGCACTGCTGGATCCGATGGAGTGCACAGACACAGCAGAGGAGC
AGAGAGTACACAGTCTCCTGCTTCATTAGTGCCGAGAATTCATGTGATCTTAGCCCAAGTTGCAACACATCA
ACCCATTATTGCCTGCCTGCTTAAACAAAGAGGAGAGCAAAACCTGTAAGTTTGTTCAGTTTCATGTCCGAAT
TGCTCCAGTCAGAGCAGAACTTCTTGGGTTCCTTACTCATGCCCTTCTGGGGGATAGTTTGGCTGCTGAATACC
TTATATTACATCTCATCTCCACAGTATATACAAGAAGAGATGTCCTTCCACTAGGAAAATTTACAGTTAACTTGA
GTGGTTGCCACGGAATAGTACCTTACAGAACACTTGTATCGAATTATTCAACATCTTGTTCAGCATCTTTTC
GTCTGCAGATGACTATAGAGAACATGAACCAATTTGAAATTCATTCCCCACAAGACTACACAGCCAATCGCTTGG
TCAGTGGGCTCCTCCAGCTGCCAGCAATACTTCCCTTGTAATCGATGAGACTCTCCTGGAACAGGGGCAGCTGG
ATACCCCAAGGTGTTTATAATGTGACAGCCCTGAGCAACCTCATAACGTGGCAGAAAGGTGGATTATGACTTCAGCT
ACCATCAGATGGAATTTCCCTGCAATATTAACGTTTTTATTACTTCGGAGGGGAGGTCACCTCCTCCGGCAGACT
GCCAGATTCACCTTACAGCCCCAGCTAATTCACCAAAACATGGAGGAGTACATGAACAGCCTTCTCTCAGCGGTGC
TGCCCTCCGCTGCTGAACAAATTCGCATTTATCTAATCTTTTGAGATTCTTGGAAATATAGCATATCTGATGAAA
TAACCAAGGCAGTTGAAGATGACTTTGTGGAATGCGGAAGAACGACCCTCAGAGCATCACTGCTGATGATCTTC
ACCAGCTGCTCGTGGTGGCTCGGTGTCTGTCTCTCAGTGTGCTGAGACAACGCTGTCAAGAGAACGATGGCTGA
GAGCAAAGCAGCTAGAGTCTTTAAGAAGAACGAGGCTTCAGCAGCAAAAATGTGTGAATGGAATGAACCTTAA
GATGTAATACCTATGAAGAGTAATGGGCAAACGTAGCCACATAATTGTAATTCAGATATTCATTATATACCAC
ATTGTTTTATAGTAATTTCTATCACAACCCAGTGACATTTCTGAAATCAAGCCTGGTAACACCTGATGTTTAT
ATGATATTCAGTAAGGACTTTTACCTTACTGATTTTCATGGAGCTTTTGAAGTTTGTTTTATAAATATATAAA
TTAGTAATGATGTAAAAAAGTATTTGATATTAAGTTTAATATTGATAATGTTGCTGATTGTACCATTTCCCTT
AGCTTCAGCTGAGTCATAGGCCAGACTGTTGAAATGCTGAAATGAAGAAGGTTGTTGCAGTTTCAAAGTCAGAGG
AATCGTGCTTCGGATTTCTTATGTTTTCTAGTTCTCTGTTTTTCCAGTTCACAGTGGGTGGGGTGCATTTCAGTA
GTCCATCTTTGGGGAACGGAGGCGTACTTGCCATTGATTACATGACTACATGAAATTCGTACTGTCTATTCC
AGATGTTTGGCCACAGAACTTTTCCCACTTAACATTTGTTAACAGCCTGCAAAACTAACTTGTACATGGCAG
TGGTTCACAGACTTTTGTATTTTATGGACCGGTAGTAATTTTCAAAAATCTGGGGTACTATAAGGTTGCCAAT
TTACCTTGCCAAGTAATCCGAATAAATCACTGTATTATCACCATTTTTTTTATAAAAGGAAAGGACAATCTATCT
CTGAATAAGAGGAGTCCTTTAAACGGAATGAATGTGGCTTTTGGGGGCAAAAGAAACCAAGACACTACATTGTCT
TTATTTTCTCCTATCCAGTGCATTTGAGAACCATGCATAAGGGAATGCTGTGCTACAAAGCTGTGCCCAAATAT
GAAACAAAATAGGAACTTAAAAAGCAATACCCCTTTAGAAAGTTTTTATTTTCTTAAATGTCATTGAGTTGC
TTTGATTCTATTGGATTTTGGCATTTTATGGGATCATCAGTTGGTTCCAAGTATGTTAGATCAGCTAACATC
TGCTACTCCAGTAACAGCCTCGTACAACCTGCAGGTAGGTTTTCTCCAGACCAATTAGTTTTTATAGAGCAAACTA
ACAACAGACTGTAGTAGCATGGTTATGGCAACCAGAATCTTCAGAAAGGTTAGGACATTACTTTTAAAGCTGTCA
GTGGTATCAAATAACTTACCTAGTTGGAGGCAGATAAAGGATCCCTTACGTTTTTCTATAAGGCCATAATTGA
AATTGTTAACCAAGGAAACAGGGTCAGCCTTGAAAAATCAAGGAATTCATTGTACCTAATAACTGAAGTAAAAAT
AACTAGTTGTTCAACTTTTCTAACTCAAATCTATTTTTATAACAAATGTAAATAATGTTTATATTAGAGTTG
AACTGGTTTTTCATTTTTATACTGGTAGACTAGACCTTCTTAACTTTTAGAAATAAAATGAAGGCTTCACTGG

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FIGURE 1398B

ATTGTGAGGATAAAAATACATTTTCTTTAATTGTCCTAGAGCAAAGTACATTAGTCACCATGTGTTTTTTGTGCC
AATGTAACCTGTAAATTTACCAAAGAAAAATACATACATTGCTTGGTCTTGCAGAAAAGTTCCCTTGAAAGAACCT
TTCCAATAAATAAAACGTCCCAAATTAGCAGTACCTTGGGCTGTTTTTCATGAGTAAGAAGATTCACCATCCCAT
GTGATCTGTGTGGAAAAAGACCATGTCTCTTGGTGGAGACATGAGAGAGCTGAACTGAAGTGGAGGAGGTGGT
GCAAGAGGGACCTTCCTGCTCAAGGCCCGCCAGGCAGCGGAATAGAGTGCAGTGCTTGGCTGCAGAAACCCTTT
GTCCCTCACCTATATATACACGGACAGTCAAGTTTGTGTGCTCTAACGTAAGGCACAGCGTTAATCCTGTATGGCC
AGGAAACTGAGTAGACTCCTGTGTAACCCTGTTTGGAACCTTGCCTTCTTAAATGATTTTTC

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FIGURE 1399

MPCGEDWLSHPLGIVQGFFAQNGVNPDWEKKVIEYFKEKLKENNAPKWVPSLNEVPLHYLKPNSEVVKFRMIQDM
FDPEFYMGVYETVNQNTKAHVLHFGKYRDVAECGPQQELDLNSPRNTTLERQTFYCVVPGESTWVKEAYVNAVQ
ARVSPSTSYTPSRHKRSYEDDDMDLQPNKQKDQHAGARQAGSVGGLQWCGEPRKLETEASTGQQLNSLNLSSPF
DLNFPLPGEKGPACLVKVYEDWDCFKVNDILELYGILSVDPVLSILNNDERDASALLDPMECTDTAEEQRVHSP
ASLVPRIHVILAQKLQHINPLLPACLNKEESKTCKFVSSFMSELSPVRAELGFLTHALLGDSLAAEYLILHLIS
TVYTRRDVLP LGKFTVNLSCPRNSTFTEHLYRIIQHLVPASFRLOMTIENMNLKFI PHKDY TANRLVSGLLQL
PSNTSLVIDETLLEQQQLDTPGVHNV TALS NLITWQKVDYDFSYHOMEFPCNINVFITSEGRSLLPADCQIHLQP
QLIPPNMEEYMNSLLSAVLPSVLNKFRIYLTLLRFLEYSISDEITKAVEDDFVEMRKNDPQSITADDLHQLLVVA
RCLSLSAGQTTL SRERWLRAKQLES LRRLQQQKCVNGNEL

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FIGURE 1400

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCCACCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCCGCGCTTCGCTATGCGCGCAATTCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACCTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGCATCTATCTATGGCAAACAGTTT
GAAGATGAACCTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAAGGCATACCTTCTGGGTAGACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTTCAATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTCTCTTCCCCAGTGCCTA
GGTTGCCAGAGCATTTCACAAAATGCCCCGTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTCGAACAATGTAGCAGCCACTGTCAATTTCTCAGTGGTTTTGCCTAA
CCAAACTTCTTCTAAGGAGATTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTGACGCCCTCTTAACCTCTGTGCACGCCCTATTTCACTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTTCCCTCTCAAAACCAGAACATCAACAGTGTCTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTTGCCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTTAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTTATATGTTTCAAGT
GTTTATGTATAAAAAATAACTTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1401

MAAIPD SWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKI IKAYPSG

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FIGURE 1402

ACCACGCGTCTCATCCATGCGCTTCCGCGGACTCGCGCCGGGTGGCAGATGGCGGCGGTGCCGGGGGCACCTTCCA
GCCCTACCTAGACACCTTGCGGCAGGAGCTGCAGCAGACGGACCCAACGCTGTTGTCAGTAGTGGTGGCGTTCT
TGCGGTGCTGCTGACGCTAGTCTTCTGGAAGTTAATCCGGAGCAGAAGGAGCAGTCAGAGAGCTGTTCTTCTGT
TGGCCTTTGTGATTCCGGGAAAACGTTGCTCTTTGTCAGGTTGTTAACAGGCCTTTATAGAGACACTCAGACGTC
CATTACTGACAGCTGTGCTGTATACAGAGTCAACAATAACAGGGGCAATAGTCTGACCTTGATTGACCTTCCCGG
CCATGAGAGTTTGAGGCTTCAGTTCTTAGAGCGGTTTAAGTCTTCAGCCGGGGCTATTGTGTTTGTGTGGATAG
TGCAGCATTCCAGCGAGAGGTGAAAGATGTGGCTGAGTTTCTGTATCAAGTCCTCATTGACAGTATGGGTCTGAA
GAATACACCATCATTCTTAATAGCCTGCAATAAGCAAGATATTGCAATGGCAAAATCAGCAAAGTTAATTCAACA
GCAGCTGGAGAAAGAACTCAACACCTTACGAGTTACCCGTTCTGCTGCCCCCAGCACACTGTACAGTTCCAGCAC
TGCCCCCTGCTCAGCTGGGGAAGAAAGGCAAAGAGTTTGAATTCTCACAGTTGCCCTCAAAGTGGAGTTCTCTGGA
GTGCAGTGCCAAGGGTGGAAGAGGGGACGTGGGCTCTGCTGACATCCAGGACTTGGAGAAATGGCTGGCTAAAT
TGCCTGAGAGGCAGCTCTAAAGCACAAGACCTGGATGTGTGACACACAGTTTTGGAAAAAGGTCTGTGGTAGTCT
GGAGTTGATGAGGAAGGGGTACAAGATGTGTTAGAAACATTTCTTTGTTCTGGAAACAAAGTACTGTTGAAACC
AGCTTGGAATTTTTTTTTTTTTTTTTTAAGTTTCAGTTCTCCCTTATGGCTGCCTTTCAAACAAGTACCTTTTA
TCTGATGCCTGTATCTTCCCTTTGTTAAGGTGTAACCTTGATGTAGGGTCAAGGTTTTTGTGACAACAGGCAGACT
CCACACAGAGAGGATATGATGAGAATATGGCCATCACCTGAAAAGTTTTCTTATCTTCTGTGCTTTTGGTCCCTG
GAAACAAATCCGCCTATGTATGAAGCTAGTTGATTTCAGTTGCACTATTTCCAGTTGCCTCTGAAGTTCACAGG
CAATACATTGTCTAGTCCTTTGCGAATTTCTCTGATTTGTGGGCACAGTTATGAAGTTTCCCCACATGTGAAGAC
AGGTACAAAAATAGCAGAGCCAAGCAGACAGTGGGTCTATTCTTCATTAGCTCAGTGACTTGTCACACTCGTCTT
AGCACTTACGTTTCAAAGCCTTGTCAAAACCCTTGGAGTCATTCCCAGATAATAGAACTGGAAATGATAAATCC
CCTAATGCCAAGGGTCTAGTGTGTTCTTAGTGGTTATACTGGGAAGTGTGTGGAGATTTAGGTGCTGCTCTGCTG
CTCTGGATGGCTGAAGGCTCCTGGGCCATCTTCATGTGCTGCTTGAAGAGCTCCTATTTTGTACTCTGGCTAGA
ATGCTGTGGAACAAATACAAAGTGAAAAAGTTCTCTGTAGATTTCTGAAGTGCATATTCATTGATGCCAAGAAA
AAAAAAAGTTGCCTTTTTG

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FIGURE 1403

MASADSRVADGGGAGGTFQPYLDTLRQELQQTDPTLLSVVAVLAVLLTLVFWKLIRSRSSQRAVLLVGLCDS
GKTLFVRLLTGLYRDTQTSITDSCAVYRVNNNRGNSLTLLIDLPGHESLRLQFLERFKSSAGAIVFVDSAAFQR
EVKDVAEFLYQVLIDSMGLKNTPSFLLACNKQDIAMAKSAKLIQQQLEKELNLTNRVTRSAAPSTLYSSSTAPAQL
GKKGKEFEFSQLPLKVEFLECSAKGGRGDVGSADIQDLEKWLAKIA

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FIGURE 1404

CAGCTTCCCACCCTGGGCTTTCCGAGGTGCTTTCCGCCGTGTCCCCACCACTGCAGCCATGATCTCCTTAACGGA
CACGCAGAAAATTGGAATGGGATTAAACAGGATTGGAGTGTTTTCTGTTCTTTGGAATGATTCTCTTTTTTGA
CAAAGCACTACTGGCTATTGGAAATGTTTTATTGTAGCCGGCTTGGCTTTTGTAAATTGGTTTAGAAAGAACATT
CAGATTCTTCTTCCAAAAACATAAAATGAAAGCTACAGGTTTTTTCTGGGTGGTGTATTGTAGTCCTTATTGG
TTGGCCTTTGATAGGCATGATCTTCGAAATTTATGGATTTTTCTCTTGTTCAGGGGCTTCTTCTGTCTGTTGT
TGGCTTTATTAGAAGAGTGCCAGTCCTTGGATCCCTCCTAAATTTACCTGGAATTAGATCATTGTAGATAAAGT
TGGAGAAAGCAACAATATGGTATAACAACAAGTGAATTTGAAGACTCATTAAAAATATTGTGTTATTTATAAAGT
CATTGAAGAATATTACAGCACAAAATTAAATTACATGAAATAGCTTGTAAATGTTCTTTACAGGAGTTTAAACGT
ATAGCCTACAAAGTACCAGCAGCAAATTAGCAAAGAAGCAGTGAAAACAGGCTTCTACTCAAGTGAACATAAGAAG
AAGTCAGCAAGCAAACTGAGAGAGGTGAAATCCATGTTAATGATGCTTAAGAACTCTTGAAGGCTATTTGTGTT
GTTTTCCACAATGTGCGAAACTCAGCCATCCTTAGAGAACTGTGGTGCCTGTTTCTTTCTTTTATTTTGAAG
GCTCAGGAGCATCCATAGGCATTTGCTTTTTAGAAAGTGTCCACTGCAATGGCAAAAATATTTCCAGTTGCACTGT
ATCTCTGGAAGTGCATGAATTCGATTGGATTGTGTCATTTTAAAGTATTAAAAACCAAGGAAACCCCAATTTT
GATGTATGGATTACTTTTTTTGTAAACATGGTTAAAAATAAACTTTTTGTGGTTCTTCTGAATCTTAATATTTCA
AAGCCAGGTGAAAATCTGAAGTAGATATTCTTTGTGGAATATGCAAAGGTCATTCTTTACTAATTTTAGTTAC
TAAATATAGCTAAGTTTTGTGTCAGCAGCATACTCCGGAAGTCTCATACTTCTTGGGAGTCTGCCCTCCTAAGTA
TCTGCTATATCATTACGTGTAAGTATTTAACAACAAAGCATTCTTGACCATGAATGAAGTAGTTTGTTC
ATAGCTTGTCTCATTGAATAGTATTATTGAAGATACTAAATGATGCAAACCAATGGATTTTTTCCATGTCATGA
TGTAATTTTTCTTTCTTCTTTTTTTTTTAAATTTTAGCAGTGGCTTATTATTTGTTTTTCATAAATAAAAATA
ACTTTTGATAATGTTTACTTTAAGACATGTAACATGTTAAAGGTTAACTTATGGCTGTTTTTAAAGGGCTATT
CATTTAATCTGAGTTTTCCCTTATTTTTCAGCTTTTTCTAGCATATAATAGTCATTAAGCATGACATATCCTTCA
TATGATCACTCATCTTGAGTTAATTAGAAAATACCTGAGTTCACGTGCTAAAGTCATTTCAGTGAATAAACTGA
CTATGGTTTTCTTAAGAACATGACACTAAAAAAAAGTGGTTTTTTCCACCGTGTGCTGATTATTAGACAGTAGG
AAATAGCTGTTTTCTTTAGTTTTACAAGATGTGACAGCTTTAGTGGTAGATGTAGGGAAACATTTCAACAGCCAT
AGTACTATTTGTTTTACCCTGATTGCACTATTTTGTTTTTTAAACAGTTGCAAAGCTTTTAAATGCATAAAAGT
ATAATTGAAATCTGTGGTATTTATTTACAAACATGCTACAAAAATAGATTACAGCTTATTTTATTTTGTATTA
ATCTCTTAATACACAGAGAACTCCCAATCTTGCTCATCTAAATAAGGAAAGACTTGGTGTATAGTGTGATGGTTT
AGTCTTAAGGATTAAGACATTTTTTGTACTTGCATTTGACTTACGATGTATCTGTGAAAATGGGATGATATTGAC
AAATGGAGACTCCTACCTCAATAGTTAATGGAATAATAAGAGGCTACTGTTGTGCTAAATGTTCTTCAAAAAGT
AATACTCCTCACTTGGAGAGTGTCAAATACATACTTTGAGGATTGACTTTATATAAGGTGCCCTGTAGAACTCTGT
TACACATATTTTTGACCATATTATTTACAATGCTTGTATAATTCTACCTTTTGTAGAGCAAGAATAGTATCTGCT
AATGTAAGGGACATCTGTATTTAACTCCTTTGTAGACATGAATTTCTATCAAAATGTTCTTGCAGTGAACAGA
GATTCTTTTTTCAATAATCTTAATTTCAAAGCATTATTAGACTTGAAAGGGTTTGATAATCTCCAGTCCTTAG
TAAAGATTGAGAGAGGCTGGAGCAGTTTTAGTTTTAAATGAGTCTGCAGTTAATATCAAAATGTGAGTTTGGGAC
TGCTTGGCAACATTTATATTTCTTATTACAGAACCTTTGATGAGACTATTTTAAACATACTAGTCTGCTGATAGA
AAGCACTATACATCCTATTGTTTCTTTCTTCCAAATCAGCCTTCTGTCTGTAACAAAAATGACTTTTATAGAG
ATGGAGGAAAAGGTCTAATACTACATAGCCTTAAGTGTCTGTCTGTTCAAGTGTATTTTCTGTAACAGAAA
CATATTTGGAATGTTTTCTTTTCCCTTATAAATTGTAATTCCTGAAATAGTCTGCTTTAAAAAGTCCCCTG
TCAGATTATATTATCTAACAATTGAATATTGTAAATATACTGTCTTACCTCTCAATAAAAGGTACTTTTTCTAT
CAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1405

MISLTDITQKIGMGLTGFGVFFLFEGMILFFDKALLAIGNVLFVAGLAFVIGLERTFRFFFQKHKMKATGFFLGGV
FVVLIGWPLIGMIFEIYGFFLLFRGFFPVVVGFIIRVPVLGSLNLPGIRSFVDKVGESNNMV

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FIGURE 1406

AAAAAACAGGAAGTGAAGTCCCCGAGCAGCTTAGAAAGCCTGACATGGCCTGACTCGGGACAGCTCAGAGCAGG
GCAGAACTGGGGACACTCTGGGCCGGCCTTCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACC
ACGAGCGAGGGAAGAAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATCTACTAGAAG
CACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCTGCTGCTGTTTACAAAAGATGCTTTTTATCTTTAACT
TTTTGTTTTCCCCACTTCCGACCCCGCGTTGATCTGCATCCTGACATTTGGAGCTGCCATCTTCTGTGGCTGA
TCACCAGACCTCAACCCGCTTACCTCTTCTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGA
AGGGGGTTTCCAGAAGAACAATGACCTAACAAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTCC
AAAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAAACCAGCCCTACAGATGGCTAT
CTTACAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCCCTGTCTCTTGATATAAGGTTATAAATCATCACCAG
ACCAGTTTGTGGGCATCTTTGCTCAGAAATAGGCCAGAGTGGATCATCTCCGAATTGGCTTGTACACGTACTCTA
TGGTAGCTGTACCTCTGTATGACACCTTGGGACCAAGAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCCA
TGGTGATCTGTGACACACCCCAAAGGCATTGGTGCTGATAGGGAATGTAGAGAAAGGCTTACCCCGAGCCTGA
AGGTGATCATCCTTATGGACCCCTTTGATGATGACCTGAAGCAAAGAGGGGAGAAGAGTGAATTGAGATCTTAT
CCCTATATGATGCTGAGAACCTAGGCAAAGAGCACTTCAGAAAACCTGTGCCTCCTAGCCAGAACCTGAGCG
TCATCTGCTTACCAGTGGGACCAAGGTGACCCCAAAGGAGCCATGATAACCCATCAAAATATTGTTTCAAATG
CTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCCATATCCTACCTCCCTC
TGGCTCATATGTTTGAAGGATTGTACAGGCTGTTGTGTACAGCTGTGGAGCCAGAGTTGGATTCTTCCAAGGGG
ATATTCGGTTGCTGGCTGACGACATGAAGACITTTGAAGCCACATTGTTTCCGCGGTGCTCGACTCCTTAACA
GGATCTACGATAAGGTACAAAATGAGGCCAAGACACCCCTTGAAGAAGTTCTTGTGAAGCTGGCTGTTTCCAGTA
AATTCAAAGAGCTTCAAAGGGTATCATCAGGCATGATAGTTTCTGGGACAAGCTCATCTTTGCAAAGATCCAGG
ACAGCCTGGGCGGAAGGGTTCTGTGTAATTGTCACTGGAGCTGCCCCCATGTCCACTTCAGTCATGACATTCTTCC
GGGCAAGTGGGATGTGAGGTGTATGAAGCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTAC
CTGGGGACTGGACATCAGGTACGTTGGGGTGCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGACA
TGAACACTTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTCAAAGGATACCTGAAGG
ACCCTGAGAAGACACAGGAAGCCCTGGACAGTGATGGCTGGCTTCACACAGGAGACATTGGTCGCTGGCTCCCGA
ATGGAACTCTGAAGATCATCGACCGTAAAAAGAACATTTTCAAGCTGGCCCAAGGAGAATACATTGCACCAGAGA
AGATAGAAAATATCTACAACAGGAGTCAACCAGTGTTACAAATTTTGTACACGGGGAGAGCTTACGGTCATCCT
TAGTAGAGAGTGGTGGTTCTTGACACAGATGTACTTCCCTCATTTGCAGCCAAGCTTGGGGTGAAGGGCTCCTTTG
AGGAACTGTGCCAAAACCAAGTTGTAAGGGAAGCCATTTTGAAGACTTGCAGAAAATTGGGAAAGAAAGTGGCC
TTAAAACCTTTTGAACAGGTCAAAGCCATTTTCTTATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACAC
CAACATTGAAAGCAAAGCGAGGAGAGCTTTCAAATACTTTTCGGACCCAAATTGACAGCCTGTATGAGCACATCC
AGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAATGGATTAAAAACTATT
CTTACATTTGTTTTGCCTTTCTCCTATTTTTTTTTTAACTGTAACTCTAAAGCCATAGCTTTTGTTTTATAT
TGAGACATATAATGTGTAACTTAGTTCCCAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATT
AAGGCTTCAGGGCTACTTTTATCAACATGCCTGTCTTCAAGATCCAGTTTATGTTCTGTGCTCTTCTCATGAT
TTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCCTTCTTCTTTGTTTTGT
GATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTTCTACTGTCAAACCTAAGAGATTTTAAATTCCT
GAAAAACTGCTTACAATTCATGTTTTCTAGCCACTCCACAACCCTAAATTTTAGTTTTAGCCTATCACTCAT
GTCAATCATATCTATGAGACAAATGTCTCCGATGCTCTTCTGCGTAATTAAATTGTGTACTGAAGGGAAAAGTTT
GATCATACCAAAACATTTCTTAACTCTCTAGTTAGATATCTGACTTGGGAGTATAAAAATTGGTCTATGACATAT
TGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGAAGGAAGTGGGAGTAAATCTGTCCCTACAGTTTGC
TGCTGAGCTGGAAGCTGTGGGGGAAGGAGTTGACAGGTGGGCCAGTGAACCTTTCCAGTAAATGAAGCAAGCAC
TGAATAAAAACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCACACAACAGGCTTATTTTCTG
TGAAGGAACCACTGATCTCCCCACCCTTGGATTAGAGTTTCTGCTCTACCTTACCCACAGATAACACATGCTG
TTTCTACTTGTAAATGTAAAGTCTTTAAATAAACTATTACAGATACTTAAAAA

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FIGURE 1407

MLFIFNFLFSPLPTPALICILTFGAAIFLWLITRQPVLPLDLNNSVGIEGGARKGVSQKNNDLTSCCFSDAK
TMYEVFORGLAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISEL
ACYTYSMAVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIIILMDPFDDDLKQGEK
SGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIVSNAAAFKLCVEHAYEPTDDV
AISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMTLKP TLFPVPRLLNRIYDKVQNEAKTPLKKFLL
KLAVSSKFELQKGIIRHDSFWDKLIFAKIQDSLGGVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTG
GCTFTLPGDWTSGHVGVP LACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDSDGWLHTGD
IGRWLPNGTLKIIDRKNIFKLAQGEYIAPEKIENIYNRSQPV LQIFVHGESLRSSLVGVVVPD TDVLP SFAAKL
GVKGSFEELCQNVVREAILEDLQKIGKESGLKTFEQVKAIFLHPEPFSIENGLLTPTLKAKRGELSKYFRTQID
SLYEHIQD

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FIGURE 1408

GCGGCAATCATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACCTGGAGGAGGGCAGCCCCG
GGCAGCGGCACCTACACCCGCCACGGCTACATCTTTTCGTGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAAT
GGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATTGTAACC
TGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGAAC
TCTTTTCGAGGAACCTATCCGCAAGGAAGATGTCGAGCAACTGAAAAAGACAAGGTTGAAATTTATAAGAGTTTC
GCCCCAGGTGACATTGTCTTGGCCAAAGTGATCTCCTTAGGTGATGCACAGTCCAACCTACCTGCTAACCCCGCC
GAGAACGAGCTGGGAGTGGTGGTAGCCACAGTGAGTCAGGTATCCAGATGGTTCCCATCAGCTGGTGTGAGATG
CAGTGCCCTAAGACCCACACTAAAGAATTCCGGAAAGTAGCCCGAGTACAACCCGAATTCTTGACAGCTTAAGAA
GCCACTTTTTACCCTATGGAAGGGGGTAAGCTGTTCTGAGTATAACACCAAGATGCTGCTGTCTTTATTCAAAC
ACCTGGCGTCGCCAACAGCCACTTCCAGAAAAATCTTCCAGTTTACGCTGTAGATGGAACATGTTTCTGTGAAC
CTATCAGTGGATTTCATTCTCTTGAGTAATAAATCTTATCTTTCAAGGCACCAACAAACAAAACCTGTGATATTG
GAAATAGCCTATCCCTCCTGACAGTCCTTATAAATACATATTTTTTGTATGATAAACTTTTTACTAAAAGGA
TGTTATAGAGTCTGTTGTCTTAAGCAGAGAAAGACATCTAAATGGTGTGAGGACATTTAGTACTTCTGCTTATT
GAGTACTTACTGTGCTAGGCACTGAGTCAGGTGCTTTACATACGTCCCTTCATTTAGGTACATTGTGATTTAAT
GAAAATTTGAGGACACGTGGTGATACAGATAGCATGTGAGGCAGGCATGGTGGCTCATGTTGTAAATCCCAGCA
CTTTGGGAAGGCCGAGTTGGTTTTGAACTCCTGGCCTCCCAAGGTGCTGATAGTACAGGCATGAACCACTGTGCT
TGGCCTTTTTAAAAATTTGTAGAGATGCAGTCTTACTATGTTGCCAGGCTGTCTCAAACCTCTGGCCTCAAGTGG
TCCTCCTGCCTTGGCCTCCCAAATGTTGCAATTACAGGCATGAGCACTGTGCTTGGCAAGCTAAGGAGGATTTT
CACTAGCAGTTTTCATTTGACAATACCAATCTAGAGGTGAGCTTCTCAATCTTAAATGTGTATCCAAATCACCTGG
GGAATAGATGCCGATTCTGAAACAGGTCTGGAGTGAGACCTGAGGTTCTGCATGTATAACAAGCTCCAGGGGGT
CCAGCTGTCA

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FIGURE 1409

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAIVTCKV
SSINSRFAKVHILYVGSMPKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQSNYLLTTAENE
LGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT

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FIGURE 1410

GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTTCGCGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCTGGGAGGCGGCCGAGGTGGGGCGCCGCTGGGGCCGGCCCGCACGGGCTTCA
TCTGAGGGCGCACGGCCCGGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTTAGTGGTTACTTGGATGATTGTACCTGTGATGT
TGAAACCATTGATAGATTTAATACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGAATGIGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTCAGTCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAAAAATATG
GAATGTCTCTACGAAGAAAACTGTTTTAAGCCACAGACAATTAAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACT
TATATCTGGCCTACATGCAAGCATTAAATGTGCATTTGAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACAACTTACAGAAATTTCAACAGCGATTGATGGAATTTGACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAACTTGTATTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAATAAAATTCAGGATGAGGAAAAACAAATGTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTTCTTTCATTTTGTGATGAGAATTCATTTTGTCTGGGGATAAAAAAGAAGCACACAACTAAA
GGAGGACTTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACTGCTCTGAAGATCTTATTTTCTGAGAAATGATAGCAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCATCTAACAGACAAGAAATAGTATCATTATTCACGCATTTGGAAGAAAT
TTCTACAAGTGTGAAGAATTAGAAAACTTCAGGAACCTGTTACAGAATATTCAT**TAA**AGAAAAACAAGCTGATAT
GTGCCGTGTTTCTGGACAATGGAGGCGAAAGAGTGGAAATTCATTCAAAGGCATAATAGCAATGACAGTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAGTAAACACATTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTTAAATAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAACAGCGTTTTATG
TAATAATATGTAATATAAATAAACTATGGTAAATGTGACAAGCATTTAATAGGAAAATGCTAAGGAGGCCTCAT
AAATGACCCATAATTACCAACGTAGAATTTTTCAGTACATTTAGGGTTGCTGGATTTAGCAAATAAAAAATAAGA
TTGCCAGTTAGATTTGAATTCAGATAAACAATTAGTTTTTAAATATTTTACATGGAATATTGGAAAAATACIT
ATACTAAAAAATTATTTGTTTGAATTCACATTTAACTGGGAGTCTTGTATTTTATCTGGCAATCCTAAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTGTGTGTAGAAACGTACAA
TAACAACCTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTTATCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCATAATTGTTTCATACGTGCTTTATCTTTTCATGCTTTCTCTGTA
CACACACACACACACACAAATTTTCTCAATCATTTGAAAGTCAGTTATAGGCATCATGCCCTTAAACCTTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAACCTCCACAAATCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAACTTTCAAGTTCCAATCTAAAGTCTTTTTGAGTTTTGTTGCCCG
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAATAATTTTTTTAGAGACAAGGTTTTGC
TGTGTTGCCCAAGCTGGAACCTGAACGACTGGGCTGAAGTGATCTCCACCTCAGCCTCCCAAGTAGCTGGGAA
TACAGGTGCTGCCACCATACCAGTTTCATTTTTGTTTTTATACCCGAAGTTCATTTCTTTGCTCCCTAAA
ACTGAAGTGTAAATTTGGGAGGTTTCATTAGTGAAGCTCTTCATTTATAAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCACATGGTAATTGTAGAGAAAAAGAAGCTATATACCTCAAATCGTCCCTCTTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTATACTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAA

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FIGURE 1411

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAQAQRFCQVSGYLDCTCDVETIDRFNNYRLFPRLOKLLSDYFR
YYKVNLRPCPFWNDISQCRRDCAVKPCQSDEVPDGIKSASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLNPERYTGYKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGO
GTSEENTFYSWLEGLCWEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLFFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIIVSLFNAFGRI
STSVKELENFRNLLQNIH

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FIGURE 1412

CTGTTCCAAACCACGTGGACGCGTCTGGGCTGCTGGAGGCAGCCCGAGCCGCCGCCGTCGGTGTGCGCGCCACCA
CCACCATCGGAGTCACGAGTCCCAGCTCTGTCCGAAGTCGCCGCTCTCGGGCTGCTCACGTCTCTTCGGAGAGCG
CGCACATGGCGACTCAGGCGTACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCTGTCTA
CCCTGAGCGGGCGCCCCGTCAAAATCCGAAAGATTGGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTGAAG
CCAGCTTCATAAGGCTATTGGACAAAATAACGAATGGTTCTCGAATTGAAATAAACCAACAGGAACAACCTTAT
ATTATCAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACC
TGGAGAGTCTTCTTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATC
AGGTTGACCCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTGAAACAATTGGGATTGATGGTGAAT
CATTGAACTGAATATTGTGCGACGGGGAATGCCTCCCGAGGAGGAGCGAAGTGGTTTTCTCATGTCCTGTGA
GGAAGGTCTTGAAGCCCATTCAACTCACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTAC
GTGTGTACCTCAGATGGCGAACCAGGATTGTGGATTCTGCGAGGAGCATCCTCAACAAGTTCATACCTGATATCT
ATATTTACACAGATCACATGAAAGGAGTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGA
CCACCAGTGGCACCTTCCTCAGTGTGAACTGGCCTCCAACCCCGAGGGCCAGGGAGCAGCAGTACTTCCAGAGG
ACCTTGGCAGGAAGTGTGCCCGGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAA
GCCTGGCGCTACTACTCATGACCCTTGGACAGCAGGATGTTTCCAAAGTCCTGCTAGGCCCTCTCTCTCCCTACA
CGATAGAATTTTTGCGGCATTGGAAGAGCTTTTTCCAGATTATGTTTAAATGAAACCAAGCCATGTGGTGAAG
AACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTTCTCAACCTTAGCAAGACCCTCAAGT
GATAACCATCACAAGATAAGGCCCCAGTGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGT
CCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTTCTGTGAAGAAATATCAATATACAAATAAAG
ACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCAGGAGGGGCCAGTCACCAT
GAGAGCTCCCTTGCCCTTACCTGGAGGAAGAATGTGCCTTCAGGCCACAGTCGTGCTGCTAGAACAGTCTCATAGC
TGCAGTTCAGCTGTGCTTCCCTCAGCCTACTATCATAGGCTTCCTCAGCCCTCTGTATATGGCTGTTTTGCAAAC
CTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTGTAGGGATTAAATG
AGATAATATGAGTGGCAGCTCTTCATGAGTCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATT
TATCTTTGATCTTCTGAATGGATTGCTGTGATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATG
TGAGGGATGGATGGCTGCGGGGCTCCAAGTAAGTTATTGGGATGTTTTTATATTCCAGGTGTGCTGTACATTCT
TATTTTATTTTACAAACAGCTCTGTGATGTAAATGCTATCTCCATGAGAAAATTCATAAAGGGTGTGTGTTCCT
TTGAAATGTATAATGTAAAGACATTAAATCTCCTCATTT

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FIGURE 1413

MATQAYSLSYAGCNFLRQRLVLSTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITNGSRIEINQTGTTLYY
QPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVTDQVDPVSVLKDATALPLLKQFGIDGESF
ELNIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKRIRGMAYSVRVSPQMANRIVDSARSILNKFIPDIYI
YTDHMKGVNSGKSPGFGLSLVAETTSGTFLSAELASNPQQGGAAVLPEDLGRNCARLLLEEIYRGGCVDSTNQSL
ALLMTLGQQDVSKVLLGPLSPYTIEFLRHLKSFFQIMFKIETKPCGEELKGGDKVLMTCVGIGFSNLSKTLK

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FIGURE 1414

CTACAGATACTGCCGTGTGAGAGTACCTGAGGGGCTCCTGAAAGACCTACTGCCAGGACCAGTGACCCTGGTGAT
GGAACGCTCGGAGGAGCTCAACAAGGACCTAAACCCCTTTACGCCTCTTGTAGGCATTCCGATTCTGATCATGC
TTTTATGCAAGACTTGGCTCAGATGTTTGAGGGTCCGCTTGCTCTCACTAGTGCCAACCTCAGCTCCCAGGCCAG
TTCTCTGAATGTCGAGGAGTTCCAGGATCTCTGGCCTCAGTTGTCCTTGGTTATTGATGGGGGACAAATTGGGGA
TGGCCAGAGCCCCGAGTGTGCGCTTGGCTCAACTGTGGTTGATTTGTCTGTGCCCCGAAAGTTTGGCATCATTTCG
TCCAGGCTGTGCCCTGGAAAGTACTACAGCCATCCTCCAACAGAAGTACGGACTGCTCCCCTCACATGCGTCCTA
CCTGTGAAACTCTGGGAAGCAGGAAGGCCCAAGACCTGGTGCTGGATACTATGTGTCTGTCCACTGACGACTGTC
AAGGCCTCATTTGCAGAGGCCACCGAGCTAGGGCCTAGCCTGACTTTTAAGGCAGTGTGTCTTTCTGAGCACT
GTAGACCAAGCCCTTGGAGCTGCTGGTTTAGCCTTGCACCTGGGGAAAGGATGTATTTATTTGTATTTTCATATA
TCAGCCAAAAGCTGAATGGAAAAGTTAAGAACATTCTAGGTGGCCTTATTCTAATAAGTTTCTTCTGTCTGTTT
TGTTTTCAATTGAAAAGTAATTAATAACAGATTTAGAACTCTAGTGAGAGCCTCCTCTCTGGTGGGTGGTGGCA
TTAAGGTTCAAACCCAGCCAGAAGTGCTGGTGCTGTTTAAAAAGTCTCAGGTGGCTGCGTGTGGTGGCTCATGCC
TGTAATCCCAACATTCTGGGAGGCCAGCGGGGAGAAGTCTTGGAGCCAGGAGTTCAGAATCAGCCTGGGCAAC
ATAGCAATACTCCGTCTCATAAAAATTAATAAATAAAAAAGTCTCAGGTGACCAAAGGCTCCTGAAGCTAGAACCA
GGTTTGGATAAAGATTGAAGAGCCACAGGCCACTCTTCCCTCTGAGCCATTGGGCCTAGTGGTGTCTGTATTGT
AATTGCTCGCAGGGAGAGCAGTCTTTTTGGTGTAATAGTGGGATGTCTGCTTAGTTGGCAGGGGTTTCACTCCAAA
TGGAAGAATATTGGGAAATAAACCTCCACTATCCTTTATAGCCAGGGACTTTTTCTTATTTATTCATAAAATAA
ATTATAGTTAATTATACCCATAACACCTTTATTTAAATCCAGTGTTCTCCGCAGCCTTTTGTCTATTATATATGTG
TACCAAGTGTTAAACATAATTATTATTGGGCATTTGAACCTTTGTTTTCTTTAAAGAAATGCTGCTATTAAACAT
ATTTGTAAATGGAAGAAA

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FIGURE 1415

MERSEELNKDLNPF TPLVGIRIPDHAFMQDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECLRGSTVV DLSVPGKFGIIRPGCALESTTAILQQKYGLLP SHASYL

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FIGURE 1416

CAGATAGGCGACACGCGGGCGCTGAGGCGGGAATGGCTGCTGTACTGCAGCGCGTCGAGCGGCTGTCCAATC
GAGTCGTGCGTGTGTTGGGCTGTAACCCGGGTCCCATGACCCTCCAAGGCACCAACACCTACCTAGTGGGGACCG
GCCCCAGGAGAATCCTCATTGACACTGGAGAACCAGCAATTCCAGAATACATCAGCTGTTTAAAGCAGGCTCTAA
CTGAATTTAACACAGCAATCCAGGAAATTGTAGTACTACTGGCACCAGATCATTCTGGAGGCATAGGAGATA
TTTGTAAGCATCAATAATGACACTACCTATTGCATTAAAAAATCCACGGAATCCTCAGAGAGAAGAAATTA
TAGGAAATGGAGAGCAACAATATGTTTATCTGAAAGATGGAGATGTGATTAAAGACTGAGGGAGCCACTCTAAGAG
TTCTATATACCCCTGGCCACACTGATGATCACATGGCTCTACTCTTAGAAGAGGAAAATGCTATCTTTTCTGGAG
ATTGCATCCTAGGGGAAGGAACAACGGTATTTGAAGACCCTATGATTATATGAACCTTTTAAAGAGTTATTGA
AAATCAAAGCTGATATTATATATCCAGGACATGGCCAGTAATTCATAATGCTGAAGCTAAAATTCACAATACA
TTTCTCACAGAAATATTCGAGAGCAGCAAATTCCTACATTATTTCTGAGAACTTTGAGAAATCATTTACAGTAA
TGGAGCTTGTAATAATTATTTACAAGAATACTCCTGAGAATTTACATGAAATGGCTAAACATAATCTCTTACTTC
ATTTGAAAAAACTAGAAAAAGAAGGAAAAATATTTAGCAACACAGATCCTGACAAGAAATGGAAAGCTCATCTTT
AGTTTCAGATTAAAGAAAGCTTTGTTTTATTTTGCTTTGAGAGAATGGTATGTTTTCTTAACTATAGGTTATTTT
ATAGAGAATATAAAAGTATAAAACATTAAAAATAACCCTAGATATACTTTAAATAATGTTATATTTATGCTAAA
ATATGTAAATTACACTATAACAACCATATGATAGGTTATTTCTTAACCTTGTCTTCTAACGTTTTACCAAAAT
CATAATCTAATAGTTTATCAGTTTTCAATAGATTAAATAAAATGATTACTTTAAAAATAATAAAATTTATCTAAT
TTAAAGTTGATATTATTTTGGCCGTTAGTTATCTATTACTAGTGATCAGTTATACTGTTTCTATAGCTACTTT
ATTTAACAGCACAGATTTCTATGCACCTTTACTCTTTCTCAACCCTTGTCTCTATCTGTACATAATTGCTTTGT
CTTGATGTTTCTATCAACTATATCATGACTATCTATTGGTTCCATAACTCTGTATCATGTGTATTTTCTTATTCT
GGTATACCACAAATGATTCATGCAATGAATTTTGGTGATTGAAAAATATTAAATTCCCAATTTAAAGTATTAT
ATGATA

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FIGURE 1417

MAAVLQRVERLSNRVVRVLGCNPGPMTLQGTNTYLVTGTPRRILIDTGEPAIPEYISCLKQALTEFNNTAIQEIVV
THWHRDHSGGIGDICKSINNDTTYCIKKLPRNPQREEIIGNGEQQYVYLKGDVVIKTEGATLRVLYTPGHTDDHM
ALLLEEENAI FSGDCILGEGTTVFEDLYDYMNSLKELLKIKADIIYPGHGPVIHNAEAKIQQYISHRNIREQQIL
TLFRENFEXSFTVMELVKIIYKNTPENLHEMAKHNLLLHLKKLEKEGKIFSNTDPDKKWK AHL

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FIGURE 1418

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTCA**ATG**
GAGGGCTCAGGGGAGCAGCCGGGCCCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAGTAACTTTCGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAAGTGCATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CAGTTAATTGAAAATAGTACAAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAGAAAGAGAA
AAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACTAGCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAATGATTGTGATGGAACGTTGTCAGGCTTGGTCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCTGGAGGAGACCTGTTTCGGGCGACAAACAGCATGTTTTGGATTTCCAAATCTTTTCTC
AGTGGTCTTTATGAATTCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAAGCAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCCAGAACAGGAAACAATGGAAACAATTTCTCAA
GATCCAGAACATAAGGGGCCTAAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCTGCTGCTGCTTTTGGTGGACTTTGTGGCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAACTGCGGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAACTGCTGATGAGTGGAGGTGGGGGT
TATCTTCTCTCCGGCTTACCCTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAAACGAAATGCCAGAGTCTGACTCT**TA**ACCCCTTTTGA
GAATTGCTCTGAATTTTGTCTCAGGCATTATACAGTTAGTAATTAACCTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCCTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACCTC
CTCTAAGTACTTCTAAATATTCTGTGCAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGAATAATACAACTAAACATGGCGGGTACCGAAAGGAGGGCAATTCATGGA
AGAAATTTCTCTGTTCAATTCGTTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTCTGAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTAATAGTTGAC
AACCTGGGAAAGTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTACTAGAATTTTGTGTACTATTCAATTAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1419

MEGSGEQPGPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEIIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQQRKRHLEAAALLSERNADGLIVA
SRFHPTPLLLSLLDVAPSRPFVVYCYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEPAKKRKCPESDS

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FIGURE 1420

GGCAGTTAGTCGGCTGCAATGGCGCCGGTGAGGCGGTCCGCGAAGTGGCGGCCTGGTGGTATTGAGGCGCGTGGT
GAAGGGGTTTCCACTGTCGGGTACAGGAATAAGAAATGTGAGACAGAAGACATGGCGGCCTAACCAACCGCAAGCC
TTCGTGGGGAGCGTTCGCGAGGGACAAGGCTTTGCTTTTCGAAGAAAAGTGAATAACAGCAAAGTTACAAGAAA
TTGCTACGGAAGGAAAAGAAGGCTCAAACGTCACCTGGAATCTCAATTCACAGATCGATACCCAGATAATCTGAAA
CATCTCTATTTAGCTGAAGAGGAAAGACATAGGAAGCAAGCAAGAAAAGTCGACCATCCTTTGTGAGAACAAGTT
CACCAGCCGTTGCTTGAAGAACAGTGTAGCATTGACGAGCCTTTATTTGAAGATCAGTGTAGCTTTGACCAGCCT
CAGCCAGAAGAACAATGTATTAAACAGTAACTCCTTTACAATTTCAAAGAAAAATAAAAAGAAAACATCAAAT
CAAAAAGCACAGAAGAATATGAACAGATACAAGCCAAACGTGCTGCTAAGAAACAAGAATTCGAGAGGAGAAAA
CAGGAGAGAGAAGAAGCCCAAGGCAGTACAAAAAGAGAAAATGGAAGTGTTTAAATACTGAACAAAAAGACT
AAAAAGGGCCAACCAAACCTGAATGTACAAATGGAGTACCTTCTTCAAAAAATACAAGAAAAATGTTAAACATTT
TGTTCTTACAGGTTAAATATCTGCTGCCTATTAGGTTCTTCTGTGACATGTGCCTCCCAGCAGTGAAGTAAATT
TGTCGACATAAACTGGATTGCTAAACTATGCTAAATATAAGATGTTTACATATTTTTATTATGGTAAAAATTTT
CTAAATATGTTCTACATGTTTCTTATTTATTTGCCTCTGAAGGAAGGTTGGCCTGAAGAACTGAAAGAACCTCTT
ATTTTGCAAGACAGGCCCAAGCATGTAATACTTTTGTACCATATGAGATTTATATGAAATAAATTTTTTAAAAAT
AAGGAAAAAAAAAAAA

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FIGURE 1421

MAPVRRSAKWRPGGIEARGEVSTVGYRNKNVRQKTWRPNHPQAFVGSVREGQGFAFRRLKIQQSYKKLLRKEK
KAQTSLESQFTDRYPDNLKHLYLAEERHRKQARKVDHPLSEQVHQPLLEEQCSIDEPLFEDQCSFDQPPQEEQC
IKTVNSFTISKKNKKKTSNQKAQEYEQIQAKRAAKQEFERRKQEREEAQRQYKKKKMEVFKILNKTKKKGQPN
LNVQMEYLLQKIQEKC

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FIGURE 1422

AGCTTCGCGCTAGTGCTGTTTTTTTTTTTTTTTTTTTTTTAGCAATGGCGGTTCCCGCGTGCGGGCTCTTGACCCG
TTTGAACCTGTGTGCCCCGAGAAGAACTCGAGTCCAGCGGCCTATCGTCAGGCCTTTTGAGTTGCCAGGAACGT
GGCCAAAGACCTTAGGAGAGACGAGCAGCCTTCAGGGAGCGTGAGACAGGCTTTGAAGACAAGATTCCCAAAAG
GAGATTCTCTGAGATGCAAAATGAAAGACGAGAACAGGCACAGCGGACTGTTTTAATACATTGCCAGAGAAAAAT
CAGTGAACAAGTTTCTTAAATATTTATCCCAATTTGGACCTATTAATAATCATTCTTCTATGAAAGCTTTGG
TCTCTATGCTGTCTGATAGATTTTGGCAAAAGGAAGCATAGGTTCACTGCAGAATGGGACTCATACTCCAAGCAC
GGCCATGGAGACTGCAATTCATTGATCAGATCAGCTTTCTCAATCTGAAGTGAAAAACCAGACTTCTGAACGGTC
ACGCGTACGGTCAAGTAATCAGTTGCCACGTTCAAACAAGCAGCTTTTTGAATTACTTTGTTATGCAGAAAGTAT
AGACGATCAGCTGAACACTCTCTTGAAGGAGTTCCAGTAACAGAGGAGAACACTAAGCTCCGATATCTCACCTG
TTCTCTTATTGAAGACATGGCCGCCGCGTATTTTCCAGACTGCATAGTCAGACCCCTTTGGCTCCTCAGTCAACAC
TTTTGGGAAGTTAGGATGTGATTTGGACATGTTTTTGGATCTAGATGAAACCAGAAACCTCAGCGCTCACAAGAT
CTCAGGAAATTTCTGATGGAATTTCAAGTGAAAAATGTTCTCTCAGAAAGAATTGCAACTCAGAAGATCCTGTC
TGTTTAGGAGAGTGCCCTTGACCCTTTGGCCCTGGCTGTGGGTGTGCAAAAAATATTAAATGCCCGGTGTCC
GCTCGTGAGGTTCTCACACCAGGCTCCGGATTTTCAGTGTGATTTGACTACGAACAATAGGATTGCCTTGACAAG
TTCCGAACCTCTTTATATATATGTTGCCCTAGACTCAAGAGTGAGAGCCTTGGTGTTAGTGTACGGTGCTGGGC
TCGAGCACATTCATAACAAGTAGTATTTCTGGTGCAIGGATTACAAATTTCTCCCTTACAATGATGGTCATCTT
TTTTCTCCAGAGAAGATCACCCCTATTCTTCCAACACTAGATTCTTTAAAAACCTTAGCAGATGCAGAAGATAA
ATGTGTAATAGAAGGCAACAACACTGCACATTTGTTCTGTGACTTGAGTAGAATTAAACCTTCACAGAACACAGAAAC
ATTAGATTACTACTGAAGGAATTTTTTGGAGTATTTTGGCAATTTTGCTTTTCGATAAAAAATTCATAAATATTG
ACAGGGAAGGGAGCAAAACAAACCTGATTCTTCTCTGTACATTGAGAATCCATTTGAACTTCTCTCAACAT
AAGCAAAAATGTAAGTCAAAGCCAGCTGCAAAAATTTGTAGATTTGGCCCGAGAAAGTGCTTTGATTTTACAACA
GGAAGATACAGATCGACCTTCCATATCAAGTAATCGGCCCTGGGGGCTGGTATCCCTATTGCTACCATCTGCTCC
AAACAGAAAGTCTTTTACCAAGAAGAAAAGCAATAAGTTTGCAATTGAAACAGCCAAAAACTTGCTAGAATCTTT
AAAAGGTAACAGAACAGAAAAATTTCAAAAAACCAGTGGGAAGAGAACAATTAGTACTCAGACATGATGGCTGCT
ACATTGTGTAAAGAACTGGGCTTAGCCTATCAAATGGTCTGTGGACTTACTGGAAAACTGATTTGAACTTTT
ACAGATCTCAGCTTTTCTGATGTCACTTTTCATGATCTTCTCATTGGCCCCCTTAACCTGGTCTGAAGTTCTG
GGATGTTTTAGTTTATCAGTCTGATACTCAGTGGCACTTTATTAACATCAGCTGTGGAGTGTGGCGGTGCA
CACCTGTAGTCCCAGCTGCTCAGGAGGCTGAGGCAGGAGGATCTCTGAGCCCAGGATTTTGAATCCATCGTGGA
CAACATAGCAAGATTCCATCTCTAAAAAAATGAAAATAAACATAAGCCACAAGGAATGGGTGAAAGATTATTGT
AATGTGCTTTAACTAAATAGGTAAATATACTAAACAAATGCTAAACTCAGTTTTAGGATGAAACCATTGTTGAT
ATCCACATCAGTCCCTGTTTAGAAAACATTTAAATGACTTTTAGTTATGTACAGTACGTTGGCAATGAATACAT
TAAGCTTCAAAATTTGGTAGTCTCTGAATATGTATTTTGTATTTTCAAGCGAAGTTCTCTTATTCACATAT
AAATTAAGTGGGTTGGTACTGATATCAAAAAATGTTTATGTTTTTAGAACAGACATTCAGTCACTGCATTCTT
AGGTATTCCAAACCAATATGATGACATCAATAGATTGCATTTTAAAAATATTGTTGATTTTCTATTTTCAA
AATAAAATCTGTTTCTAACT

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FIGURE 1423

MAVPGVGLLTRNLNCARRRTRVQRPIVRLLSCP GTVAKDLRRDEQPSGSVETGFEDKIPKRRFSEMQRERREQAQ
RTVLIHCPEKISENKFLKYLSQFGPINNHFFYESFGLYAVVEFCQKESIGSLQNGTHTPSTAMETAIPFRSRFFN
LKLKNQTSERSRVRSSNQLPRSNKQLFELLCYAESIDDLNLTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDC
IVRPFSSVNTFGKLGCDLDMFLDLDETRNL SAHKISGNFLMEFQVKNVPSERIATQKILSVLGECLDHFGPGCV
GVQKILNARCPLVRFHQASGFQCDLTNNRIALTSELLYIYGALDSRVRALVFSVRCWARAHS LTSSIPGAWI
TNFSLTMMVIFFLQRRSPPI LPTLDSLKTLADAEDKCVIEGNNCTFVRDL SRIKPSQNTETLELLLKEFFEYFGN
FAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNVQS QQLQKFVDLARESALILQQEDTDRPSSISNRPW
GLVSLLLPSAPNRKSFTKKKSNKFAIETAKNLLES LKGNRTENFTKTSGKRTISTQT

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FIGURE 1424

TTTGCTAAAGCCACCATAAAGGAAATAGTTGTGTGGCCCATGTTGAGGCCAGACATCTTTACTGGTTTAAGGGGA
CCCCCTAAAGGAATTTTGTCTTTGGTCCTCCTGGGACTGGTAAAACTCTAATTGGCAAGTGCATTGCTAGTCAG
TCTGGGGCAACATTCTTTAGCATCTCTGCTTCATCCTTAACTTCTAAATGGGTAGGTGAGGGGGAGAAAAATGGTC
CGTGCATTGTTTGTCTGTGCAAGGTGTGAGCAACCAGCTGTGATATTTATTGACGAAATTGATTCTTGTATCT
CAACGGGGAGATGGTGAGCATGAATCTTCTAGAAGGATAAAAAACAGAAATTTTATGTTCAATTAGATGGAGCAACA
ACATCTTCTGAAGATCGTATCCTAGTGGTGGGAGCAACAAATCGGCCACAAGAAATTGATGAGGCTGCCCCGAGA
AGATTGGTGAAAAGGCTTTATATTCCTCCAGAGCTTCAGCCAGGAAACAGATAGTAATTAATCTAATGTCC
AAAGAGCAGTGTTCCTCAGTGAAGAAGAAATTGAACAGATTGTACAGCAGTCTGATGCGTTTTTCAGGAGCAGAC
ATGACACAGCTTTGCAGGGAGGCTTCTCTTGGTCCTATTTCGAGTTTACAAACTGCTGACATTGCTACCATAACA
CCGGATCAAGTTCGACCCATAGCTTACATTGATTTTGAAGAAATGCTTTTAGAACTGTGCGACCTAGTGTCTTCCA
AAAGATTTAGAGCTTTATGAAAACCTGGAACAAACTTTTGGTTGTGGAAAGTAAGTGGGATACTTGGAAATCAAGG
CATCTCTGTAGTACAGTCTTCTTTATTTTTTAGCATAGAAAAGTTGGGATGTGTTAATTGTATTTTTAAGAATAT
ATTCTAAGTTCTGTACTTCAAATAATAGCACAGATTTTACATCTGATTGACATAGTGTATGTTAATGTAAGTTTT
GCTTTCCAGTGATTACCTGATACGTAAGCCTATTTGAACAAAGTGAGAATGAACTTTTGTTTCTAAGAAGTCTTT
ATCTTGAAGCTATATAACATGAAAAGTGAGCTCAAATTTTTTTTAGTTGAAGATTACATATAAAGTTGTGTCTGA
TTAATATTCTCTTTTATTGAAGAAAGTGCCCTTCGATGGCCACATAATTCTTAATGTCAGCTAGTATAATGGTT
TACATTTGGACAAAGTATTGCTTAGTGTATTTAAGTAGATTTAAGATCTCAAAGCTAAAGTGCCAATTTTTACT
TTCTTCAGCCAATTTGTTACCTCTTTTATGGTTTTTAAATTTTTATCAGGACTAACATTTTCAGAAATAGCAAGGT
GTGATCTAGTATTAGATTCACAGAACTGAAAGGTTAATTAAGAATGTTGGTTATTTTCACGGGAGCGTGTGATAT
TTAACATTAATATTTTATTGACACTACAGCCTGTAATACTGCTCTCTTTCAAAAACAAGTTTTCAGATTTTTAT
AACAGACCCATTTTGTTTTATGAAACATGTTTCATTACAGAAACATGAGAAAATAGAGATAAGTAAAAAGAATAAA
AGTCACTATTATCCTACCACTTTGCGGGACACACTATTAATATTTAAGCATAGATTCTTCCAGATGTTTTGTTTT
ATACAGCAGTAGGATTGTGTAATGTATTCTCTCTTGTAGCCTATTCTTCAAAGCGTATCTTCACTTTCCATGTTA
ACATAAATGTCCTTTTATGATTGTCTAGGATTCCATGGATGGATGGAATATAATTGAGTCATCTGGTAGAGCGCA
TATAGGACAGGACGCTAGGTTGTTTATCTTTTGTATTGTAAAGGAACATGTGGGATGCATTTGGTGATCTTT
TTAAAAATGTATAAATTTCTTGAGTAATCCTGGATTAAAGAATATGCACTTCTT

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FIGURE 1425

MLRPDIFTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGECEKMVRALFAVARCQOPA
VIFIDEIDSLLSQRGDGEHSSRRRIKTEFLVQLDGATTSSDRILVVGATNRPQEIDEAARRRLVKRLYIPLPEA
SARKQIVINLMSKEQCCLSEEEIEQIVQQSDAFSGADMTQLCREASLGPIRSLQTADIATITPDQVRPIAYIDFE
NAFRTVRPSVSPKDLELYENWNKTFGCGK

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FIGURE 1426

CGTGGTTTCCGGAAC TTCGCCGCTCTCTGGGCTTTTGCTCTGT CAGGCTGGTGGCGTTTGGTGTCTTCGTTT
GTTATGGCCGCTGCTGTGCTATGGAGACAGATGATGCTGGAAATCGACTTCGGTTTCAGTIGGAGTTGGAATTT
GTGCAATGTTTAGCCAACCCAAATTACCTTAATTTTCTTGCCCAAAGAGGTTACTTCAAAGACAAAGCTTTTGT
AATTATCTTAAATACTTGCTTTACTGGAAAGACCCAGAATATGCCAAGTATCTAAAGTACCCTCAGTGTTTACAC
ATGTTAGAGCTGCTCCAATATGAACACTTCCGAAAGGAGCTGGTGAATGCTCAGTGTCGAAATTTATTGATGAA
CAGCAGATTCTACATTGGCAGCACTATTCCCGGAAGCGGATGCGCCTTCAGCAAGCCTTGGCAGAGCAGCAACAG
CAAAATAACACATCGGGAAATGAAAACTGGATACAAACGAGGCACCTAATACATGTATATAATGTATTTCTTT
TGTACAGTGAAGACAAAAAATGAAAACTCTTCCTATCTACCTTTATTATGGTAGCCCTAGAACCTTTAGTGT
GCTTTTTCATCCAACCTTTTATTGTTAATAGACTATTTCTGTTAAACCTGAATTGTTCTTTGATTTCCCTGTGGA
TTTGTAAGGTGTTTTCTTTTTTACGCATTTAGCATAATCAGCTGATTAGAATGGAAAAGTTAGGTGCTTTAGA
CCAAATAAGGCACTGGGGCATGGGGTAGGGGTGGGCCACCAAGTATACTGAATTCTAAGGCTAGCTGTTCTGAC
ATATAGTAGGGCAAGACCATCTCCTGGAACCTTACTGTCTCAGATCAACTACTCTACCCTCTACTCTAAGATGT
AGTGAGAGTAGCGGAGTCACTGACCTCTTTAAATCATAGGACAGGAAGTGCATAAAGGTTCTTGAATTCGACGG
ACAGGAATAACTGTATTACCTGCTTTGCAAGGTGGCTTTAAGAATCACTGAATCACTGTGGCCTCACTTGACCT
AGTCATGGCAGGACAACTAGTGGTTAGTTACTAAGTGGACTCTTGACTTTAGAACAAACATGAGGAGCCTCAAAT
ACTTGTGTTTCAATTTGGGAAAGCTACCATTGATTGGGAGGTACCACAAACCAGGTGCTATGTTAAGTGCTT

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FIGURE 1427

MAAAVAMETDDAGNRLRFQLELEFVQCLANPNYLNFLAQRGYFKDKAFVNYLKYLKYWKDPEYAKYLYKYPQCLHM
LELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMRLLQALAEQQQQNNTSGK

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FIGURE 1428

CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAAA
TCTGTGAGCTCTTTTCCTTATGGGGACCCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGA
GCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATATACCAACCGCACC
TTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCTGCTCATTGGGGAGAACTGTTCCAC
GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCCT
CAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACA
TGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGA
GAGAGTGGAGAGATCAAAGCAATTGGAGAAGTGGATTGCTGTTTATGTCTCTGAGAAATGCCTGCATTGTGACCA
GAGCAAAGCTGAAAAATGAATAACTAACCCCTTTTCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT
TTTTAACCAAAAGGAAGATGGGAAGCCAACTCCATCATGATGGGTGGATTCCAAATGAACCCCTGCGTTAGTTA
CAAAGGAAACCAATGCCACTTTTGTTTATAAGACCAGAAGGTAGACTTTCTAAGCATAGATATTTATTGATAACA
TTTCATTGTAAGTGGTGTCTATACACAGAAAACAATTTATTTTTTAAATAATTGTCTTTTTCCATAAAAAAGAT
TACTTTCCATTCTTTAGGGGAAAAAACCCCTAAATAGCTTCATGTTTCCATAATCAGTACTTTATATTTATAAA
TGTATTTATTATTATTATAAGACTGCATTTTATTTATATCATTTTATTAATAAGGATTTATTTATAGAAACATCA
TTCGATATTGCTACTTGAGTGTAAGGCTAATATTGATATTTATGACAATAATTATAGAGCTATAACATGTTTATT
TGACCTCAATAAACACTTGGATATCCCCAAAAAAAAAAAAAAAAA

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FIGURE 1429

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1430

CTCGAAAGGCCCATGTGGGCAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTT
ACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGAGGCCGCCCTGGCTGAGCAGACCGCCCTTTCCC
AGCTGCACTCGCCCTGTGGACAGCCCCGACACACCATTCTCTGAGGCTGTCGCTCACTCAGATTGTCCGTTTGC
TATGCCGAATGCAGCCAAAATTCCTTTTACAATTTGTGATGCCTTACCGATTGATCTTAATCCTGTATTTAAA
GTTTTCTAACTGCCTTATACTGTGTTTCTCTTTTGGGGGAGCTTAAGTCTTGTGCTCCCTGTCTGCTGCA
CCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCC
TGCTCCAGGGCTGTCTGCGGCCAGCCCCGAGCCTGCCCCAGCTGGCGCGCTCTGTCTGATCAGCACCTTCCTG
GAGGACGGCATCCGTATGTGTTCCAGTGGAGCGAGCAGCGCACTACATCGACACCACCTGGAAGTGGCGCTAC
CTGCTGGCCTCGTCTTCTCTTCACTTGTCTGGGACAGCTGACTGGCTGCGTCTGTTGTGAGCAGGAAC
TTCGTGCAGTACGCCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGGAC
TTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCTGTGCTGCTCTAGCAGAATCCCGTTCTGAAGGG
AAGAGCATGTTTGGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTC
TTGCTGGTCTGATGTTTATGACCCCTCCTTCACTTTGACGCGAGCTTCTTTTCTATTGTCCAGAACATCGTGGGC
ACAGCTCTGATGATTTTATGAGCCATTGGTTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGTGGCTCTTT
GCCATCAACGTATATTTCAACGCCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCTGAAATACGAC
TTCTTCCAGACCATGTGCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGAT
GAGAAGAAGAAGGAGTGGTTAACAGTCACAGATCCCTACCTGCTGGCTAAGACCCGTGGCCGTCAAGGACTGGTT
CGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCTCCCTTGGTAAAGGCACAGATGT
TTTGAGAACTTTATTTGACAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGA
CCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTGGC
TGTGGCATCTCAGTCCATTTTGTAGTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAG
ACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTATGCGGAACTACTAAATT
ATTTTGGGTGGTTTCAAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGTTG
TTTCTGCCCCGATTGTATTTTATAGGAATAGTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAG
GGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAAGTGTTTTAT
TGGGTAACACCCCTGGGAGTTTTAGTAGCTTGAAGCAAGGTGGAGGGGCAAGAAGTCTTGGGGAAGCTGCTGGTC
TGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCAC
CCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAGAGCCGAGCCGCTGTGGGCAGGGGTGTGGCAGG
AGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAA
GCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCAC
TTTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGTATGCCGAATGCAGCCAAAATTCCTTTTTACAATTTG
TGATGCCTTACCGATTGATCTTAATCCTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTT
GGGGGAGCTTAACTGCTTGTGCTCCCTGTCTGCTGACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTC
TGGCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGCGGCCAGCCCCGAGCCTGC
CTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGA
AGTCACCTACCTTTTTAACACAGCCGAAGTAGTCCCAACGCGTTTGCAAATATTCCCTGGTAGCCTACTTCCTT
ACCCCCGAATATTGGTAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCTGTGATCATTCAAGTGCTC
ACTGCATGAAGACTGGCTTGTCTCAGTGTTCAACTCACCAGGGCTGTCTTGGTCCACACCTCGCTCCCTGT
TAGTGCCGTATGACAGCCCCATCAAATGACCTTGGCCAAGTCACGTTTCTCTGTGGTCAAGGTTGGTGGCTG
ATTGGTGAAAGTAGGGTGGACCAAGGAGGCCACGTGAGCAGTCAGCACCAGTTCTGCACCAGCAGCGCTCCG
TCCTAGTGGGTGTTCTGTCTTCTCTGGCCCTGGGTGGGCTAGGGCTGATTGGGAAGATGCCTTTGCAGGGAG
GGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAAACAATTTCTAAGATTTTTTGTCTTTATGTGGAAACA
GATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACGTTTTGATTTTTGGAACACATC
AAAATAAATAATGGCGTTTGTGTATGCAGTGTATCTATAGCGTTGCCAGCCTGAATGGGGCTCCCTCAGG
ATGCCAGTGAGCGAGGTTACTTCTTAGGCTTCTCTGAAGACCACTCAGAAGCCATGTCCAGAGAGAATTAGTCC
CTCAGAGTCCCTGTGCTTCTTGGGTGTGGGGGACAGACTCCCTCAGCCCTGCCTTAGAGGGCAGCAGATGTCAT
GAGACAAGGATAAGTGGGTAGAGAAGACACTGGGGACAACCCGATCATTAGAGGACACACGGTTTGATCAGGAG
CGGGGGAAATATCTGAAGGCTTTCTCGAACTTCACGGCATGTGCT

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FIGURE 1431

MRNLALGGGLLLLLAESRSEGKSMFAGVPTMRESSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALM
ILVAIGFKTKLAALTLVVWLFAINVYFNAFWTIPVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKK
EW

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FIGURE 1432A

GCTGACGGTTGCTGCACACACAGTCCCCACGTTCAGATCCTGAGCTTGACGGGAGAGCTCCGTCGGGCTGGGAAG
CGCCAGCCCTGGTTTGTCAACAGCACACATGCGCTGTCCAGAGCCTGGGGCCTCCTCCTGCTGCTCTGGAGATTTT
CGGATAACTGTAAACGTGATCTTACTATTTCAGTCAACCATGTGGCCCTCTAGGTGTGGACCCCTGGCTGTACCT
AAGCCAACCCCTTGTCTGTTCAGGGTACTCTGGGCGTCACTGGGAGGCTGGGAGGTCCAGGCCCTTGGCACCTCA
GCCATGTGTGACCTGCAGGCTGGGGTCAAGTCTTGGCATTGCACCATCAGGTCTGCGAAGCCTAGGGGAACCCCT
TCCCGCTGGGTTTAAATATAGCCATTTGTAAAGTGAGGGGTGGACCAGAGCAGCGGAGATGCCTGGCAAAGTGCA
GCGGTGCCCTCAGGAGGGAGGCTGCTGCTGGCATGTCTGGGAGACATGTCTGCGTTCATAGCCTGCAGACCCCA
GGATGACCCACGGCAAAGAGTGGCCTGGCCTCAGATGCCAGTAGTGTGAGGTGCAGAAACGTTGGATAGATGAC
CTCTAAGTGCCTTTTTCAGATGTCACTTCTGATTCCAACTGTAAATGCCCTTGACCGAAAAGAGCAGCTCTGTG
TCTTGTGGCAGTGCCACCTTGAAGACTGTAGTTGCCTGCCGAGGCACTGGGGGAAATCAAGGTAGCAGAGTGT
AGGGCTGTGCCCTATAGGATCTGCCCCAGAGGGCCTAACGTCAAGTCATGCATCTCCGGGACTGATCCTTGGAT
TGTGTGATGTGTCCAGACTCAGAGGTAGCGCTCAGGAGCAAGCACTGAGAGCCCCCTAGTCTGCCCTGGGAAGG
CACCAGGGGCTGACAAGAGCTCTTGCCTTCCACAGCGTCTGTTCCTCACACACCCCGCCCAAGGACGTGCCTGGCA
GCGGCTGTGTCTCCCCGCGCAGCCACCTCACCTTGGGTTTCTGTGGCCCTGCAGTTTCTCCGTGTCAAAAG
CAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGACCTTCTGGAGGACGGCATCCGTATGTGGTTCCAG
TGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACGTGCGGCTACCTGCTGGCCTCGTCTTCTGCTTCTC
AACTTGTCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGAACCTTCTGTCAGTACGCCTGCTTGGGCTC
TTTGAATCATAGCTACTGCAGACGATTGCCCTTACAGCATTATATGGGACTTGAAGTTTTTGTATGAGGAACCTGG
GCCCTGGGAGGAGGCTGTGTCTCTAGCAGAATCCCGTTCTGAAGGGAAGAGCATGTTTGGGGCGTCCCCA
CCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAAGGCTTGTCTGTTCTGATGTTTCATGACCC
TCTTTCACCTGGACGCCAGCTTCTTTTCTATGTCCAGAACATCGTGGGCACAGCTCTGATGATTTTGTGGCCAT
TGGTTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGCGGCTCTTGGCATCAACGTATATTTCAACGCCTT
CTGGACCATTCAGTCTACAAGCCCATGCATGACTTCTGAAATACGACTTCTTCCAGACCATGTCGGTGATTGG
GGGCTTGTCTCTGGTGGTGGCCCTGGGCGCTGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTC
ACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAACTGCAGC
TTTTATGTATCTCTTCCCTTCCCTTCCCTTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACC
TGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGACCCTTCAGTGCAGGCCAGCCTGGCAGC
TGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCGCTTGGCTGTGGCATCTCAGTCTATTTTGTAGT
TTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAGACGATTGGTATTATCATTCAAAGCAG
TCTCCCTCTTATTTGTAAAGTTTACATTTTTCAGCGAACTACTAAATATTTTGGGTGGTTTCAGCCAAACCTCAA
AACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGTTGTTTCTGCCCCGATTGTATTTTATAGG
AATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAGGGGTGGTAGAAGCTGCTGTTTATGATA
AAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAGTGTTTTATTGGGTAAACCCCTGGGAGTTTGTAGT
CTTGAGGCAAGGTGGAGGGGCAAGAAGTCTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCA
GTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCACCCCTGCAAGCCAGCCTGGCCAGCTGCTC
AGACCAGCTTGAGAGCCGAGCCGCTGTGGGAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGAC
TCAACCCAGTTACCTCACATGGGGCCTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCAC
CGCCCTTTCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCACTTCTGAGGCTGTGCTCACTCAGAT
TGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTACAATTTGTGATGCCTTACCGATTGTATCTTAATC
CTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTTCTCTTTTGGGGGAGCTTAAGTCTTGTGTCTCCC
TGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCAACACCTCTCTGGCCCTAGACCTATCTGGGGACAGG
CTGGCTCAGCCTGTCTCCAGGGCTGTGCGGCCAGCCCCGAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGC
TCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGAAAGTCACCTACCTTTTAAACAGCCGA
ACTAGTCCCAACGCGTTTGCAAATATCCCTTGGTAGCCTACTTCTTACCCCGAATATGGTAAGATCGAGCA
ATGGCTTCAGGACATGGGTTCTCTTCTCTGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGT
GTTTCAACCTCACCAGGGCTGTCTCTTGGTCCACACCTCGCTCCCTGTAGTCCGTATGACAGCCCCCATCAA
TGACCTTGGCCAAGTCACGGTTTCTCTGTGGTCAAGGTGGTTGGCTGATTGGTGGAAAGTAGGGTGGACCAAAG
GAGGCCACGTGAGCAGTCAGCACCAAGTTCTGCACCAGCAGCGCCTCCGTCTAGTGGGTGTCTCTGTTTCTCCTG

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FIGURE 1432B

GCCCTGGGTGGGCTAGGGCCTGATTCGGGAAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTG
ATTCTGGCAAAACAATTTCTAAGATTTTTTGCTTTATGTGGGAAACAGATCTAAATCTCATTITATGCTGTATTT
TATACTTAGTTGTGTTTGAAAACGTTTGATTTGGAAACACATCAAATAAATAATGGC

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FIGURE 1433

LTVAAH TVPTSDPELAGESSVGLGSAS PGLQQHTCAVQSLGPPPAALEIFG

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FIGURE 1434

GGCGGAGAGGGCCGGCCGGCCGGCACATTCTGTGGAGGCCGACGCGGTGCGGCGCCGACGGGAGGAGCAGCGAG
CGAGCGACGAACGCCGAGCCGAGCCTCCCGCCGTCGCCATGGGCCAGAACGACCTGATGGGCACGGCCGAGGACT
TCGCCGACCAGTTCTCTCCGTGTCACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCC
TGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGGACTACATCGACACCACCTGGAAC TCGGGCT
ACCTGCTGGCCTCGTCTTCGTCTTCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGA
ACTTCGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGG
ACTTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAG
GGAAGAGCATGTTTGGGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGG
TCTTGCTGGTTCTGATGTTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTATTGTCCAGAACATCGTGG
GCACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTTGTGTGGCTCT
TTGCCATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCCTGAAATACG
ACTTCTTCCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGCTCTCCATGG
ATGAGAAGAAGAAGGAGTGGTAACAGTCACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGG
TTCGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCTCCCTTGGTAAAGGCACAGAT
GTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCT
GACCCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTG
GCTGTGGCATCTCAGTCCTATTTTTGAGTTTTTTGTGGGGGTACAGGAGGGGGCCCTTCAAGCTGTACTGTGAGC
AGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAA
TTATTTTGGGTGGTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTTAAATCACACCAGTGGCTTTGATGT
TGTTTCTGCCCCGATTGTATTTTATAGGAATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAA
AGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1435

MGQNDLMGTAEDFADQFLRVTKQYLPVHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGGLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIIVGTALMILVAIGFKTKLAALTIVVWLFAINVYFNAFTI
PVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKKEW

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FIGURE 1436A

CCGGTTCCCGCGGTTCGCAGCTCCAGCCGCCTCCTCCGCGCAGCCCGCCTCAGCTGCTCGCTCTGTGGGTCCGT
CCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCAGTGTCTCCTCCTCTCCGGC
CAGACCCAGCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGTGGCCGAGCAGGCGGAGCG
CTACGACGACATGGCCCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTGCAATGAGGAACGAAACCT
TCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCCGCTCTCCTGGAGGGTTCATCAGTAGCATTGACAGAA
GACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGA
GGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAG
CAAAGTGTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGAGAGAAAAGGGC
GACGGTGGTGGAGTCTCTCCGAGAAGGCCTACAGCGAAGCCACGAGATCAGCAAAGAGCACATGCAGCCACCCA
CCCCATCCGATTAGGCCTGGCTCTTAATACTCTCGTCTTCTACTATGAGATCCAGAACGCCCCAGACGAAGCGTG
CCACTTGGCCAAGACCGCGTTTCGACGACGCCATCGCCGAGCTTGACACCTCAACGAGGACTCTTACAAGGACTC
CACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGACGATGGCGGCGA
AGGCAACAATTAAGGCCCCAGGGGAAGTGGCAGCGCACGCGGATGCTACTACTGCACTCTTTATTTTTTCCCAT
GAGTTGGGGTCCGGTGGGGGAGGGAAGGGAGGGATGACCTTCCAGGGAGAAACCCACGACCTGTCTGTCTT
TGATCGCCTCTTTGACATTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGCTGGTGAATAGC
AGCCTCACACTGGCGTCTGGACTGTCTGTAGATTATGCAAGTGGAGCTGTCTGTCTTAATTTAAGTATTGTC
TAGATAATAGGGTTTTCAGATGAAAAGAAAACCTAAAGAGGAATGGCCCTCATTAGTAAGTTCTGTGGTTCCAG
TAAGGATTTTTATGTACATACGCTCTCGTCTCTCGTTTTGGGTACTTCTATCTCATCTGTCTCGGCTCTGCATG
TTTTCCAGGGTGTAGCCTACAGACATGGAACAGTGAATCCCAGACTGACAGACTTGAACCTGAGGTCTCATT
CATCCTTATGGTTTAGGCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACAGTATTAACTAAATTCAGTT
TACAGTATTTCTACATTACAGCCATATGTAACATCAAGCCATCGATTGTGTACTTTTTCTTTGTAGTTGTTTGG
GCTTTAACATCCTTATTCAGCCTTATCCAGGTTGGTTTTGCTGTGATCGGTCTCCTAGGCTAAATGAGAAAGAA
AGCGACTTCAGGTTTTTGGTTTCATAGGTGCTCGGCAGGTGGCTGTGGGATTTTTTTTTTGGTCTCTCTTCTC
TTACGTAATAATCCACCACAAAATTATTAATCCTCTTGAGAGAAACGTGAAACGCCACAAAATAGAGAAAATTC
AGGTCTGTATGTATGGATCGTGTGTTGTTATTTTCAGAGAACATCCCGCTTCTGAAGCTGCTGCAGCTCCCTCCTC
AGGGATCACACTGCCGTCACCCACTCTGCACTGGGGCGTTTTCTACTGCGCCTCGTGTGGCGGACGCAGCTGGG
TGCAGAAGCTGTGGGTCGGGAGAGGCGTTTTGGAGAAGTCTGTGGTGCAGTGTGTGAAAATTCAGGTGCTAGAAG
CCTACTGGTAGAAAAACCCAAAAGGAAGAGCTATATCCTTAACCATTCTGTCCAATTTCCGGAGCCTTGTCACTG
TGTCAGTTTTTCTCCTCCCGAAGACACTCCTTCCCAAGTAATTGTAGGAAGATAAAAAACTGTTACCAGATAAC
AAACACTTAACCTTATTTGACCAGAACTTTTTCTCTCGAGATAGTTTTTCTTTTTTAAGAAAAAGCATAGG
AATTGGAGATTGGCTTGTCTCACGCAGCCAGTGCACATTGGAATTGACGGAACAAACGTTGCTATTTCCACCCA
TTTTTTTTTCCGCGAGCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCGCATGT
GCATTCTTTTTTTTTATATATATAAAGTCAGTGACGAGGCACTCCCGAGACGTGTAATGACACCACACTGTTTTTC
TTTTTTCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAATTGAGGAAAAACTGACAGATGCTTTTGCTAATA
CCAAAATTGAGCTTACAATTAGGAAGTGAATGTGTAAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACG
ATGACCACAGACTCAATGTGCTCTGTAAACATCGCACAGTTTACCCAGCATGACTTTCTTAGGAGGCCCCCTCCT
CACGCTAGAGTAAAGTCCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAGCTTTGCCGCTTTTGTGC
CTCTCACAGGCGCCTAAAGTCATTGCCATGGGAGGAAGACGATTGGGGGGGGAGGGGGGGGAGGGTAGGTGG
GGCTTTCCCTAATTTATCTTCATGTCCAGTGAGCAGTGTGCGTTTTTCTTGTAGCATTGGAATGATTTACT
GGAATTACAAAACCTATTTTTCTTTAAATTTAGCTTTGGCTCTGGCTGCTTTTTAGATAATGCAAGATAAAA
ATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAGCTTGAATGGTTTTCTTTTC
TTTTTTTTTAAAGAAATGCACTTGCCATGATACTGTCTCCAGTGAAATGATTACTCCTCCATTACTCTATTG
ATACAATATTGTGCATGCTAGTGTGTTATTTCTATACAGTAGCTTGAATTTGATTAACCTTATACTGTAGGTGTTA
TGTATTCTATGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAATTTAATTTTCTTTT
TGGGGGTAAAGTTTGCTCTACCAATAGTGATTGTAACAAATTGATCGTTTTGGATGTTGCTATAGTGACATGC
AGTTATATATTTTTGTTTTTAAAGGGGGGAGCAAAAGAAACACCAGTGTAGCTTAATCTTAATGTCTGGTGT
TGTCATGGTGAAATTAATACTATTACAGTGTGGAGAACAACAAATATGTTCTCTGAATGAGCCTTTGTGCTTTT
TGTCATGTTATGCAGTGAACATTTTTAAGGTCTAATCAGTGATTATTTTTCCAGCTCCGIGTTCTCTAAGGAA

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FIGURE 1436B

TTATTTACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAATGTGAGTCATTATGTAGCTG
TCGTACATTGAGCAAATAAACTTACAGATCTGACGCC

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FIGURE 1437

MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKTSADGN
EKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKVFYLMKMGDYRYLAEVATGEKRATVVESS
EKAYSEAHEISKEHMQPTHPIRLGLALNYSVFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQL
LRDNLTILWTSQQDDDGEGNN

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FIGURE 1438

ATGGCATTGGCGTCCGGGCCCCGCAAGCGCTAAGCATGGCTCCGGGCAGCTCGGCCTTGGGGGCTTCGGGGCCCGA
GACGCGGGGTATGAGTGGGGCGTGCCTCCACGCGGAAGTCGGAGCCTCCTCCCCTGGATAGGGTGTACGAGATC
CCTGGACTGGAGCCCATCACCTTTGCGGGGAAGATGCACTTCGTGCCCTGGCTGGCGGGCCGATCTTTCCGCCC
TGGGACCGCGGCTACAAGGACCCAAGGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAG
GCCTGCTATATCTTTACCAACCGTTGCCGCCTTCTCGAGGGTGTAAGCAGGCCCTCTGGCTCACCAAGACCAAG
TTAATAGAAGGCCCTTCCCGAGAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCATAGAGAACCAAGACGAG
TGGCTTCTGAATGTGATCTCTCACGCCCCTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGC
CCGTCATCGTGGACAACCTAATACAGCTGTGTAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATC
TGTGTCCAAACTCCACGTTTTCTGCTACCTGGAACCGAGAGTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGA
GCCCCACTGAGCACTAAGGATCCTCTGCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTT
CTAGAGACCTTCTACCCCATATCACCCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACA
GGATTCCAGGAAGGCTATCCTTACCCCTATCCCCATACCCTGTACTTACTGGACAAAGCCAATTTACGACCACAC
CGCCTTCAACCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGCTTTTGGCAGTGCCCTGGCTCAGGCCCGCTCC
TCTATGGGAATGATGCCAAGGCTTTGGAGCAGCCCGTGGTGGTGCAGAGCGTGGGCACGGATGGACGTGTCTTCC
ATTTCTAG

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FIGURE 1439

MALASGPASAKHGSGQLGLGGFGARDAGYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIFPF
WDRGYKDPREFYRSPLHEHPLYKDQACYIFHHRCLLEGVKQALWLTKTKLIEGLPEKVLSLVDDPRNHIEHQDE
CVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGSGG
ARLSTKDPLPTIASREEIEATKNHVLETFYPISPIIDLHECNIYDVKNDTGFGQEGYPYPYPHTLYLLDKANLRPH
RLQPDQLRAKMILFAFGSALAQARSSMGMMPRSWSSPWWCRAWARMDVSSIS

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FIGURE 1440

AAGTGTCTGGTGCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGCTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTTATCTGA
TGCTAGTGTCTCTGGTGAAGGAGAACATAAAATGAGTTACATTAGAAAGCAAAGAGCCAGCCTAACCATGA
CCCAATACTCATCATTGTTTATGTGGAGCAGATGTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAACAAAGCCCAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAGGAAAGCATGATGAAGTTGCCGATAGTCTTCTTGTGTC
AGAAGGAGAGTTTATCTTCTTCCGCTTAATGTTCTTCTGAGTATTGGAAAGAGAACTCACAATGGCCAGCCT
ACCATTCACATTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTGTGGGAAATGACTTCT
CCCTCATTGTGCCATCGTTAGAGATTAGGGAATGCAATTGACCGTTTGGTTAATATACAAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTGAAGACGACAGAAAGAAAAAG
AAAGAGATGAAGAGAGATCAACCAGCTTTCCTCTAGTGAATATTAATCTCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAAATACTCTAGTCC
TTCGATATCTCTTAATACGAGTTTCCATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAAGCAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTGAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATCCGTCGGAAAGTTGTGAGTCTGACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTTTATTATGCACCATTGTC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCTGTA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTTGATGCTTATTGTGGGGAAACATCACCCACTCCATGACTTCAATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAAGTATGTCATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGTGAAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAAGTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAATTTATGTCAAATATGAGGCCCCAGGATTCTTGGCGAGGTCC
TCTTCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAACCCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTTCATCATTCTACAGTTTATGCTATTTGTGGAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTAACTGTGTATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAAGCTTTGA
GCTGGAACCTCAGCAAAGTATAGTATATTGTTGAGTATTTCTTTGGAACATTTTATTAATGTACTGTCTTA
CAGAAATTTCTGAAGCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAA

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FIGURE 1441

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNLVREYLERELTMASLPFTFDVERSIDDWVMCFFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVKHTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSPSPISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVLWEAGWKQRYYKNKF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKEFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRRLRAALEEVYDLPTEETR
RNSLGGDVLFVKGHHPLHDFILELYQTGSTPEVPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPVQTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 1442A

CGGGGCCGAGGCGGAGGAGCGGCCGCCGCCGGGGCCAGCCGAGCCGCCCCCTCGCCCTTGCCCTTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGGGGGAGACGAGCCGCCGTCCCGGGCCGGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCACAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAAGGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAGAAATCAATTTTCTTGTGGAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTGCGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAGAAACACAAACACTCCCAACAACCTGGGACACTGCCTTCGCCACCCCCAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCCTAC
TTTAAGGATTCAGAGTCAGCTGATGCAGGCGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCTCATCCATGAAA
ATTCCCTTAACAAATTTCTGGATTTGCGAAACCTGGCACGGAACAGTATTTGTGGCCAAACACTAGCAAAA
CCCAAAGAGAAAAATTTCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGAAGTGT
GTGGTAGCAGATCCAGGAAAGGCTCCAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTGCCATCCAGTAATCTCAGAAAGTGAAGTTTTCAGCAG
TTCTTAAATTTCCGAGATGAGAAGGAATGGAAAACCTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGGCAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGGCCATTACCCAAGGAATATCAGAAGATAGGAAAGGCCCTTGCAAGTTTGGCCACAGTGTTCAAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCATTTCCTGATGGAATGTAATCACGAGTATAAAGGTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCTACAAGACAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGGATCTATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCAGTGATGTAGGACAGAACGGGCCTTGAA
GAGAATGCCGCGTGCTTCTCCTGACTTGGGGCAATGCAATTCAAAACCTTTTTTCCCTATTATTCAGAAAAAA
AGGAAACAAAACCAAAAGAAAGAGTTGCAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCGATCCATTATTTAAACCAGTGGAAATGTCTCTATTTTGGAAAGTAC
TTAAAGTTACCAGAAATTTCAATGGAAATGAGGGGTTTCTCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATAAATTTATAAGTCTCCACAATCTTCCAGTCTTACCCAGTGTGAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAAGTATGCCAGAAATAAAAAATATCTATGTTGTATATTTTAT
AACTCCTTTCAGTCTCTGCGGCTCCTGTCTATTGAGGGAAGTCGTTACGCTTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCACTGCTTTCTCTTTGCACTTCTTCTTAATCTTGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGGGAGGGCCTGGGGGAAGGAGGGCACCAGCACCCTGGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTCAAGGCCAGTTGGTGTCTATGAGCAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGCCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCTTACCAGCTTCCCTCCCGCTGCTTTTCAATTTCTG
ACCTTAATAATTACGGGAAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAAATAAGTAGATGAAATC
AAATGAATATGAGAATCTTGTCTTCAATATCACGGGTTTTTGTAAATGTTTCATAAGTAATCTCCCACTT
GATTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATGTTTTAAAAAACTGTA

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FIGURE 1442B

CAGTAAATTCTCAAATCACTTTTTCAAAACACTTTTTGGACTTTGTGTGTGATTTTTGTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCA GTTCCGTAGGTCAAGTGTTCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCAGTGTCTGACTCTCGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG

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FIGURE 1443

MATKARVMYDFAAEPGNNELTVNEGEIIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDLSASTAQASSSAASNNHQVGSNDPWSAWSASKSGNWESSEGWGAQPEGAGAQQRNTNTPNNWDTAFGH
PQAYQGPGATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQL
AKPKEKIPIIVGDYGPWWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLMECNHEYKGFGLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYNVIRLYLEQQVQFYETIAEKLRLSRFPVM

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FIGURE 1444A

CGGGGCCGAGGCGGAGGAGCGGCCGCGCGGGGCCAGCCGGAGCCGCCCTCGCCCTTGCCCTTGCCCTG
CGCGGCTCAGAAATCACCATCCGCGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGGCTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCAGAAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAAAGATCAATTTTCTGTGGAAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCAGCCAGCACAGCTCAGGCCAGTTTCGTGGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACCTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACCTGGGACACTGCCCTCGGCCACCCCGAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGCTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCCTAC
TTAAGGATTCAGAGTCAGCTGATGACGGCGGCTCAGCGAGGAAACAGTCGTGCTAGTTCTCATCCATGAAA
ATTCCCTTAACAAATTTCTGGATTGCGAAACCTGGCAGGAAACAGTATTTGTTGGCCAAACAACCTAGCAAAA
CCCAAAGAGAAAATTTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGTCCAGGAAAGGCTCCAAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTCCGATCCAGTAATCTCAGAAAGTGAAGTTTTCAGCAG
TTCTTAAATTTCCGAGATGAGAAGGAATGGAAAACCTGGAAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTTGGACTTAGTAGAAATAGAGCAGAAGTGCGAGGCTGTG
GGGAAGTTTACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTAACCAAGGAATATCAGAAGATAGGAAAGCCCTTGACAGTGTGGCCACAGTGTTCAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCTGATGGAATGTAATCACGAGTATAAAGGTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCTTACAAGACAAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTCACAGTAACCGATCTATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGATGTAGGACAGAACGGCCTTGAA
GAGAATGCCGCTGCTTTCTCTGACTTGGGGCAATGCAATTCAAAACCTTTTTTCCCTATTATTAGAAAAAAA
AGGAAACAAAACCAAAAGAAAGAGTTGCAAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCCGCATCCATTATTTAAACCAGTGGAATTTGTCTCTATTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGAAAATGAGGGGTTTCTCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCCAATCTTCCAGTCTTACCCAGTGTGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACTATGCCAGAAATAAAATATCTATGTTTGTATATTTTAT
AACTCCTTTCAGTCTCTGCGGCTCCTGTCTATTGAGGGAAGTCGTACGCTTTTACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGGCCCTGGGGTGACTAGTGCCATCGTGGGTGTGTGGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACAGTGCTTTCTCTCTTGGCACTTCTTCTTAATCTTGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGCGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTTCATGGCCAGTTGGTGTATCAGCAAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGACAGAGTCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGGCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCTTACCAGCTTCCCTCCCGCTGCTTTTCAATTTTCTG
ACCTTAATAATTACGGGAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTGTTCTTCAATATCAGGGTTTTTGTAAATGTTTCATAAGTAATTTCCCCACTT
GATTTTCTTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATGTTTAAAAAACTGTA

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FIGURE 1444B

CAGTAAATTCTCAAATCACTTTTTCAAACACTTTTTGGACITTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCAGTTCCGTAGGTCAAGTGTTCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCAGTGTCTGACTCTCGGATATTTGGATTGTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTAAATGATTTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTACAAATATAGTGG

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FIGURE 1445

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFLDLSASTAQASSAASNNHQVGSNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQL
AKPKEKIP IIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTRSVNHRYKHFDWLYERLLVK
FGSAIP IPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYN SVIRLYLEQQVQFYETIAEKLRLQALS RFPVM

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FIGURE 1446

AGTTCGACACACCATGCCGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGA
CGAAGAATTTGATGAACATAGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAG
TAAAGAACAAGGTAATGTAAAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAG
ATATGATCTCCTGTGCTGGAAGGATTGGTTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTA
TAAACGGGTAAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGATACGTCCTTTTGC
GGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATTGAACCTTCAGGAGAAATT
ACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGTACCCATGATTTGGACACTTTGTGCGGGCCATT
TACTTATACTGCAAAGCGTCTTCAGATATCAAATTCAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGA
ACTGATGAACATATACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCC
AGTTATCTATGATAGCAATGGTGTGCTCCTTTCAATGCCCTCCATCATCAATGGGGATCATTCCAGAATAACAGT
AAATACTAGAAATATTTTATTGAATGCACGGGAAGTACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGT
CACCATGTTTCAAGTGAATATTGTGAGAATCAATTTACGGTGAAGCTGCTGAAGTGGTTTTTCTAATGAAAAATC
ACATACCTTTCCAGAAATTAGCTTACCAGAAAGGAGATGGTGAGAGCTGACCTAATTAACAAAAAAGTTGGAATCAG
AGAAACTCCAGAAAATCTTGCCAACTTCTGACCAGGATGTATTTAAAATCAGAAGTCATAGGTGATGGGAATCA
GATTGAGATTGAAATCCCTCCAACCAGAGCTGACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGC
TTATGGATATAACAACATTGAGATGACTCTCCCGAAAACCTTACACCATAGCTAATCAATTTCTCTTAATAAGCT
CACTGAACCTTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAAGA
AGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGTAATCTAAAACAGCTGA
ATTTCAAGTGGCAGCACTACCTTCTTCTGCGCTCCTGAAGACCATAGCAGCAAAATCGTAAGATGCCCCCTTCC
ACTGAAACTGTTTGAAATCTCTGACATTGTAATAAAAGATTCTAATACAGATGTAGGTGCAAAAAACTACAGACA
TCTCTGTGCTGTTTATTACAACAAGAATCTGGGTTTGAGATCATTCAIGGGCTGCTGGACAGAATTATGCAGTT
GCICGATGTGCTCCTGCTGAAGACAAGGGGGATATGTGATCAAAGCATCAGAAGGGCCTGCTTTCTTCCCCGG
GCGATGTGCAGAGATCTTTGCCAGGGTTCAAAGCGTCGGGAAGCTTGGGGTCCCTTCATCCTGACGTTATACCAA
ATTTGAGCTGACCATGCCCTGCTCCTCCCTAGAAATCAATATTGGACCCTTTTTGTGAAGATTGGTCTCTGTGGT
GTGATTCTCTTCCCAGGTGCCCTTTCTCCTCCCCTAGTGCTTAAAGTCCCTCCACAGGGAACATCTATTTG
GGCTTTGATGTTTAAATAAAGTAGAAAGCACTGTCTGGCTGTGTGGGTAGAGACCATCCTTTCCCTGCATATTAGG
CCAGCTTGTGCCATATACCAGTGTGGTGTCTGTGTGTAAGCTGCATTGTTGGGTAAAAGCCCCGTGGAGTGCTG
GAGAAATGCACTAGCAGAGTGCAGGATCTGTTCTGAAAGGCAGACGTGCTCCTCAGACATCAGAACATCACATTG
GAACGGATTACTCCTGCATAACAAGATCCCATTTCTTTCTTATTGATAAAACAAGATAATCGATGAGAATTCAT
GTTGCATGAGTTCGAGATAACTGAGGGGTTTAGCTTTGATTTTCTACATTTGACATGTATTTCATCATTGAGAAAC
ACTAAAATAACAATATTTTATAGAAAACGTTTAAAGATCAATTATGGTCCAACAATTATAGCTTCTGAGGTGAGTT
TAAAGTGAAGAAAAATCTGTAATACAAGGATTCAAATATGTGAGGGTGCATAGGTATTTTTTACTCTATCTGT
GATACTCTAAGATAGAGTACATGCAACAAGATCTGTTCTGCTGTAAGAGTTAAAATGGACAAGTATTGATATCA
ATGCAGTATGAACATTAGGAAAACATGAGAAGCTTATTTTTGCCATAGGCCATACATGTTACTGTAATCAGTCAG
TTATAAATCATGGTTTTAAATACTTAATTGAGCTACTAGTTTCTCTATTGTCCCAGGGAGATATTAGACCTCTC
TTTTTCTGAAGCTAAGCTTCAGCCAATCCTCCTGTTTTATATCCTAATTTCTTTCTTACTTCAATCTAGAATT
CTCCAGTAGGTACCATCTCTGGAAAAAGCTGGGTCTCATGTTTGAGACAAGTCCCAGGTACTATTGAAGTAAT
AAGAAATATGATAAAATATAATACTTTAAAGTCCCAGTAGAAATAGCTAACAAGGCTGGGTGCGCTGTGGCTCA
TGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTGGGCAGATCACTTGAGGCCAATAGTTCGAGATCAGCCTGAC
CAACATGATGAAATGCCATCTCCACTAAAAATATAAAAATTAGCCAGGCATGGTGGTGTGGGCCTGCAGTCCCAG
CTACCTGGGAGGCTGAGTCAGGAAAATCTCTGAACCAGGAGGTGGACGTTGCAGTGATCCCAGATTGTGCCACT
GCCCTCCAGCCTGGGTGACAGAGTGAGATTCTGTCTACAAAAA

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FIGURE 1447

MPTVSVKRDLLFQALGRITYTDEEFDELCEFEGLLEDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPANRYDLL
CLEGLVRGLQVFKERIKAPVYKRVMPPDGKIQKLIITEETAKIRPFAVAAVLRNIKFTKDRYDSFIELQEKLHQNI
CRKRALVAIGTHDLDTLSGPFTYAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIIENKPLYPVIYD
SNGVVLSPPIINGDHSRITVNRNIFIECTGTDFTKAKIVLDIIIVTMFSEYCENQFTVEAAEVVFPNGKSHTFP
ELAYRKEMVRADLINKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPPTRADIIHACDIVEDAAIAYGYN
NIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQEDIADKLGVDISATKAVHISNPKTAEFQVA
RTTLLPGLLKTTIAANRKMPLPLKLFESDIVIKDSNTDVGAKNYRHLCVYYNKNPGFEIIHGLLDRIMQLLDVP
PGEDKGGYVIKASEGPAFFPGRCAEIFARVQSVGKLGVLHPDVITKFELTMPCSSLEINIGPFL

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FIGURE 1448

GCTCCGGGAGACTTCCGGCAGGGCGGGCGGGGTCTTGGCGAACGGTCTTCGGAAGCGGGCGGGCGCGATGAC
CACGCTACGGGCCTTTACCTGCGACGACCTGTTCCGCTTCAACAACATTAACCTGGATCCACTTACAGAACTTA
TGGGATTCTTTCTACCTACAATACCTCGCCCACTGGCCAGAGTATTTTCATTGTTGCAGAGGCACCTGGTGGAGA
ATTAATGGGTTATATTATGGGTAAAGCAGAAGGCTCAGTAGCTAGGGAAGAATGGCACGGGCACGTACAGCTCT
GTCTGTTGCCCCAGAATTCGACGCCTTGGTTTGGCTGCTAACTTATGGAGTTACTAGAGGAGATTTAGAAAAG
AAAGGGTGGATTTTTTGTGGATCTCTTTGTAAGAGTATCTAACCAAGTTGCAGTTAACATGTACAAGCAGTTGGG
CTACAGTGTATATAGGACGGTCATAGAGTACTATTCGGCCAGCAACGGGGAGCCTGATGAGGACGCTTATGATAT
GAGGAAAGCACTTTCCAGGGATACTGAGAAGAAATCCATCATACCATTACCTCATCCTGTGAGGCCTGAAGACAT
TGAATAAACCCCTGGGCAGTGGTTCTTAGGCAGATACTCTAGATGCTTTATGGACAATATTATTTTCATTGGATGAT
TCTGGAGCTCTATTAGGAGAAAAGTAATCAITTTAGGTCTTAAAGACTTCAAGAAAATACAGGTATCAATTTAT
TTTAAATCTCATTGTTTCCAGTTAGCAATATCATACCTATTAAAGCTGTTTCATTGTAACAAAATCAATCAAAAA
GGCAGCTAGGTCAGAAGGAAACATACCACTCTCATGGTTCATAGTATTCACTGTATGTATGCTAGGGAAAAGACT
TGCTCCAGTCTCCTCCTCAGTTCTGTGCCTGAGAACCCTGCTGCATATATTTGTTTTTAAATTTTGTATTGAAC
TGTTAATTGAAGCTTTAAAAGCATATATGAAATGTATAAATCTAAGATGTATAATACATTATTGACTCTAAAAAA
AA

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FIGURE 1449

MTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLQYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEWHGHVT
ALSVAPEFRRLGLAAKLMELLEESERKGGFFVDLFVRVSNQVAVNMYKQLGYSVYRTVIEYYASNGEPDEDAY
DMRKALSRDTEKKSIIPLPHPVRPEDIE

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FIGURE 1450

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC
TTTGCCTTTCCAACCTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAGAAAATCCCTGGGCCCCCTT
TCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTGGCCAAAGCTGTTGTGTTTTAGAGGTGCTATCTCC
AGTTCCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAAGAGCCAGCGG
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC
TGACCTCTGCAAAATTCCTTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCCTTTGCGG
TGTCTGTGTTTCTGGTAGAGCTCTATGGAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC
TGGTGGTACAGAATGTTTTCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC
TGACCATGTACCATGGATGGTTCTCACTTCTGCTATATCCTGATCATCACTATTGCAAAATATTGCAAAATTGG
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGTCAGGAGAAGACAGAAGCAAACCTAG
CAAAATATGAATGCCACAATACGAAGGATTGACCAAGTTAACCACATCTTAGCCCCATGGCTGTTGGCCAGATTA
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGCGGATGGAACCTGGTATCCATGTGCGTGGAGTACG
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAAT
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATCTAATGGGTGTGAAAGACT
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC
GAGATGGATGGGTCTCCTACTACAACAGCCTGTGTTCTGGCTGGCATGGGICTTGCTTTTCTTTTATATGACTG
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCCTACACTCAGGGACTGAGTGGTTCCATCCTCAGTATTTTGA
TGGGAGCATCAGCTATAACTGGAATAATGGGAACCTGAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTTCTGTTGATCTTGTGTGATCTCTGTATTATGCCTGGAA
GCCCCCTGGACTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTTCAATCAAGGAGAGTCAATTACACCTA
CCAAAGTACCTGAAATTACAACCTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA
GTCCTGAATCTGTGCCATAATCTCTGTCAGTCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC
AGAATCCATGAACATCTTCTTGTATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG
GCTTGTCTGATTTGATTTCAGTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTGCCCCAAAATACTC
TGGGAAACAAGCTCTTTGCTTGGCGTCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAA
TCCAATAAATGGCTGGGTGTTTGTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC
CTAAGTCAGCAGAAATTAAGTGAATTTCCCTTATGTTGAGGCATGGAAAAAAATGGAAAAGAAAACTCA
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAAG
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTT
TGCAAACTCACTCTTGTTCAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTTTAAAAACAAATCTTC
AAGTATGAAGACTAAATTTTGATACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG
TGGAAAAACAAAACACTTAACTAGAATTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG
TGTGTAGAACATGAGGGTGAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTTATTTTTACTGTTTTATACCCAGAAGTTATTT
CTACATTGTTCTACAGCAAGAATATTCTAAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAA
GTTTGTATATATTTTAAAAAATGTTTTTAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA
ACGTTTTATATGCATTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTATCCTTGGAGTTTAACTCCT
TTGCTTATCTTTCTACAGTATGACATAATGATTTGCTATGTTGTAAATCTTTGTAAAAAATTTCTATATAAAA
ATATTTTGAAAAATCTTAAAAAATAAAAAA

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FIGURE 1451

MTRAGDHNRRQGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNLLLLTAVYGLVVAGSVLVL
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWLTSYILIIITIANIANLASTAT
AITIQRDWIVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWV
SYYNQPVFLAGMGLAFLYMTVLGFDCTTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRCGLVRTGLI
SGLAQLSCLILCVISVFMFGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPEV
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL
ISVSFVAMGHIMYFRFAQNTLGKLFACGPDKEVRKENQANTSVV

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FIGURE 1452

GGAACAAAAGCTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGG
CACGAGCAGAAGAGGGGGCTAGCTAGCTGTCTCTGCGGACCAGGGGAGACCCCGCGCCCCCGGTGTGAGGCGG
CCTCACAGGGCCGGGTGGGCTGGCGAGCCGACGCGGCGGCGGAGGAGGCTGTGAGGAGTGTGTGGAACAGGACCC
GGGACAGAGGAACCATGGCTCCGCAGAACCTGAGCACCTTTTGCTGTGTGCTATACCTCATCGGGCGGTGA
TTGCCGGACGAGATTTCTATAAGATCTTGGGGGTGCCTCGAAGTGCCTCTATAAAGGATATTAAGGCTATA
GGAACTAGCCCTGCAGCTTCATCCCGACCGGAACCTGATGATCCACAAGCCAGGAGAAATTCAGGATCTGG
GTGCTGCTTATGAGGTTCTGTGAGATAGTGAGAAACGGAAACAGTACGATACTTATGGTGAAGAAGGATTAAG
ATGGTCATCAGAGCTCCCATGGAGACATTTTTCACACTTCTTTGGGGATTTTGGTTTCATGTTTGAGGAACCC
CTCGTCAGCAAGACAGAAATATTCCAAGAGGAAGTGATATTATTGTAGATCTAGAAGTCACTTTGGAAGAAGTAT
ATGCAGGAAATTTTGTGGAAGTAGTTAGAAACAAACCTGTGGCAAGGCAGGCTCCTGGCAAACGGGAAGTGAATT
GTCGGCAAGAGATGCGGACCACCCAGCTGGGCGCTTCCAAATGACCCAGGAGGTGGTCTGCGACGAAT
GCCCTAATGTCAAACCTAGTGAATGAAGAACGAACGCTGGAAGTAGAAATAGAGCCTGGGGTGAGAGACGGCATGG
AGTACCCCTTTATTGGAGAAGGTGAGCCTCACGTGGATGGGGAGCCTGGAGATTACGGTTCCGAATCAAAGTTG
TCAAGCACCCAATATTTGAAAGGAGAGGAGATGATTTGTACACAAATGTGACAATCTCATTAGTTGAGTCACTGG
TTGGCTTTGAGATGGATATTACTCACTTGGATGGTCACAAGGTACATATTTCCCGGGATAAGATCACCAGGCCAG
GAGCGAAGCTATGGAAGAAAGGGGAAGGGCTCCCCAACTTTGACAACAACAATATCAAGGGCTCTTTGATAATCA
CTTTTGATGTGGATTTTCCAAAAGAACAGTTAACAGAGGAAGCGAGAGAAGGTATCAAACAGCTACTGAAACAAG
GGTCAGTGCAGAAGGTATACAATGGACTGCAAGGATATTGAGAGTGAATAAAATTGGACTTTGTTTAAATAAGT
GAATAAGCGATATTTATTATCTGCAAGGTTTTTTGTGTGTGTTTTGTGTTTTTCAATATGCAAGTTAGGC
TTAATTTTTTTTATCTAATGATCATCATGAAATGAATAAGAGGGCTTAAGAATTTGTCCATTTGCATTTCGAAAAG
AATGACCAGCAAAAGGTTTACTAATACGCTCTCCCTTTGGGGATTTAATGTCTGGTGTGCCGCTGAGTTTCAAG
AATTAAAGCTGCAAGAGGACTCCAGGAGCAAAAGAAACACAATATAGAGGGTTGGAGTTGTTAGCAATTTCAATC
AAAATGCCAACTGGAGAAGTCTGTTTTTAAATACATTTTGTGTTATTTTT

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FIGURE 1453

MAPQNLSTFCLLLLYLIGAVIAGRDFYKILGVPRSASIKDIKKAYRKLALQLHPDRNPDDPQAQEKFDLGAAYE
VLSDSEKRKQYDTYGEGLKDGHQSSHGDIFSHFFGDFGFMFGGTPRQQDRNIPRGSDIIVDLEVTL EEVYAGNF
VEVVRNKPVARQAPGKRKCNCRQEMRTTQLGPGRFQMTQEVVCECPNVKLVNEERTLEVEIEPGVRDGM EYPFI
GEGEPHVDGEPGDLRFRIKVVKHPIFERRGDDLYTNVTISLVESLVGFEMDITHLDGHKVHISRDKITRPGAKLW
KKGEGLPNFDNNNIKGSLIITFDVDFPKEQLTEEAREGIKQLLKQGSVQKVYNGLQGY

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FIGURE 1454A

GC GCGAGTTGCTGCTAACGCTCCTCCTCCAGCTTCCCACCCCGCCGCCCGCCGCGGCCGGTACCAACGGGTGG
TCTCGCCGAGGGAGCTGTCTGCTCGTGGTCCCGGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGC
ATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCACTCC
ACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGT
GGCTTGAGGTTGGCTGAGAAAAACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTGTGC
AAGTTTCGGTGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTATGGAGCTGATTGCAAAAT
GGAACATTGAACATTTTGAAGAGGAGAACCATATTAAGATGCTCTGTCTCGAATTGTAGTGAAATGATCAAG
CGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTTCCAAACAAGGGGAAACACAGACA
GAATTGGTGATGTTTATCCTTTTGGGACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGA
AGGGACATCCAGCAAAACATTAAACCAGAACATGGAAGGATCTTCAGTTTCTGTCTTAACACACTTCAAGAAAAT
GTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGCGCAAGCAAAGTGTGAGTAGGAGTT
GCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACGTGTAAACTC
CTGGAGATACTGTGTTTGTCTGTTGAATGAACAGGAACCTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTC
AGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTGGAGATGTTGCCATGCATTATATACTC
TCCGCCGCACAGACTGCTGATGGAGGAGTTTGGTAGAAAAACACTACGTCTTTCTGAAGAGGCTCTGTCTAGGTG
TTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTTGGA
AAATACCTGGAATCTTTCTTGCTTTTCAACCCATCCAAGTCAAGTTCTACGCTCTTCAACTCAGATGACTTGG
GGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCTCTTGTCTATTAGCAATAATACCAAAATATCTTCGTGCT
TCCATGACTAACTTGGTCAAGATGGGCTTTCTTCTTAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGAT
TTTGATAGCGATGAGGACTTCAATGCTTTCTTCAACTCCTCCCGAGCACAAACAAGGAGAGGTGATGAGGTTGGCA
TGTGCTTTGGATGCCAAAACCTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTTCTTGAT
GCTGGTTCTGTGAATCTTGTCTGTGCACTTGGAACTGGAGAAGGAAGCCTCTGTTCCGCTCTTCTACCTTCATT
GTGCACTGGGAAGCCATGACTCTTTTTTGGAAAGTGTATACCCAGATGTTTTCGAACATAAATAGAGAAGAA
ATTCTGTTAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACCTTTGATACCAAGGATCCCTCATCCTGTCC
TGCGTCTTACTAATGTCTCTGCACTCTTTCCATTTGTACCTACAGACCAGAGTTCCTGCCCCAGGTCTTCTCT
AAGCTATTTTTCATCTGTCACTTTTGAACCTGTTGAAGAAAGTAAGGCCCCAGAACCCGGGAGTGGGAATGTG
AGGAGGCATGCTTGTCTCCTCCATCATCAAGATGTGCTGACTACCCCGAGCTTGTGCTGCCCAATTTTGACATG
CTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACACAAATGGAGAAGTGTGCCCTCATGGAA
GCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAAGAGGTGTTCTAGAGGAGCTGATGGCACCA
GTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGTGTCAGATGTTGATGCTTTTATTGTGTATGTGGGT
ACAGATCAGAAGAGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAAACCGTGCACGAATGAGCTTTTGTGTA
TACAGCATTCTGGGTGTGGTGAAACGAACCTTGCTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTTGTG
GTGGGTTATACATCCAGTGGAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAACTCTTGCACAT
TTGCTTGCCTTATAAGAACCACAAATACATTATATGCACCAGAAATGCTAGCCAAATGGCAGAGCCTTTACC
AAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAACTCAATGAC
TCTCCTGTCTTCAAACCGTCTTGGAAGAATGCAGCGTTTCTTCTTACCCTCTATGAAACTGTTTTCATATC
CTAGGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCA
GCCTTTGTCAACTTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCGTGTCTTTGTAAAGCCTCTGGTG
CTCTTCTGTCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGGACCTCTTTACCTACCTCCATATG
AGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGTGTGTGGAGAAGATGAGGCTGCAGATGAAAAC
CCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTT
TGCTGTGTTTCAAAGAAGGTGCTGACCACAGTAGTGCTCCCCAGCAGATGGAGACGATGAAGAAATGATGGCC
ACAGAGGTCACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGT
ACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTCTGTCTGCCAGAGGACAACCTCACAG
CTCTGTGGCCTCTCCTCAAACAAGTGCTGTGAGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTACCAGT
GTGCTGAAAGGCTTACAGATGCACGGGCAGCACGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATA
TACGAGGCACTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCA
CTGGACCAGTTTACTGCAAGCTTTTAAACCCCTCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTC

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FIGURE 1454B

AAACGCCTCATTGCTGGTTGCATTGGGAAACCCCTTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTT
CCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACC
ATCTTTGAACCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTCATCTCTTCTTCCCTTTGTAGC
CGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCACTGTCAGCCTGGAAAGAGATCCAGGTCTGGAG
CTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAAAC
TATTCTGTCTAGATGTCCCAGATAGTTCCCATTTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAG
CAGCCCTTCTCCCAAGCCCTCCCACCCCGTGCAGCCACATACCTGTACAGAATGGTAACTAAGGGTGCTGTG
CCCAACCCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCAACTACTTGTGCCAGAGTTTCTCTTGGACC
ACTCCAACCTCCCACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTTCCCACTCCCTAAGGGGCATGTCTGG
GTTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGAT
GGGATCCATGGTACAGGCTACTGCTAAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAA
GTCTTTAGTGCTAACATCCCTTTAGAGTTCACAATCTTGGCCTTCCATGAATGACCCCTCAGTCTGGCCTCCC
CAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTCTCAAGG
ATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCC
AGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACAT
GCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGAT
ACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGC
TCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCGAGAGCCGAAGTGGACTGAA
GCTACAGTTTTTAGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTG
GGAGTCTTGTGTTGCTCCCTCTTCTGTGTGGTCTCTGGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGT
TTCCCTCCAAACCTGATAGCTGCCTATTCCGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTG
TAATATTTTTAACATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAACTTTTTGTAGAAACATTAA
CTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 1455

ENHIKDALSRIVEMIKREWPHWPDMLIELDTLSKQGETQTELVMFILLRLAEDVVTFTQLPPQRRRDIQQTIT
QNMERIFSLLNLQENVNKYQQVKTDTSQESKAQANCRVGVAAALNTLAGYIDWVSMSHITAENCKLLEILCLLL
NEQELQLGAAECLLIIVSRKKGLEDKPLMVLFQDVAMHYILSAAQTADGGGLVEKHVFLKRLCQVLCALGNQL
CALLGADSDVETPSNFGKYLESLAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKM
GFPSKTDSPSCEYSRFDSDDEDFAFFNSSRAQQGEVMRLACRLDPKTSFQAGEWLKYQLSTFLDAGSVNSCS
AVGTGEGSLCSVFSFVQWEAMTLFLESVITQMFRTLNREEIPVNDGIELLQMVLFNFDTKDPLILSCVLTNVSA
LFFVITYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNRRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQL
LSNELLLTQMEKCALMEALVLISNQFKNYERQKVFEELMAPVASIWLSQDMHRVLSDDAFIAYVGTQKSCDP
GLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNPFRNPCTEQILKLLDNLLALIRTH
NTLYAPEMLAKMAEFTKALDMLDAEKSAIILGLPQPLLELNDSPVFKTVLERMQRFFSTLYENCFHILGKAGPSM
QQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLRVFVKPLVLFPCPEHYEALVSPILGPLFTYLHMRLSQKWQV
INQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTPSAM
AELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLADAVTWLFTSVLKGLOMH
GQHDGCMASLVHLAFQIYEALRPYLEIRAVMEQIPEIQKDSLDQFCKLLNPSLQKVADKRRKDQFKRLIAGCI
GKPLGEQFRKEVHIKNLPSLFKTKPMLETEVLDNDGGGLATIFEP

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FIGURE 1456

GCACGAGGCCGIGGAGGCGCCACGTCCCTTGCGGCGGCGGGAGAGAAATCGCTTGGACTTCGGGGCGGCCTCGGA
CGGCCATGGCCTTTACCCTGTACTCACTGCTGCAGGCAGCCCTGCTCTGCGTCAACGCCATCGCAGTGCTGCACG
AGGAGCGATTCCCTCAAGAACATTGGCTGGGGAACAGACCAGGGAATTGGTGGATTGGAGAAGAGCCGGGAATTA
AATCACAGCTAATGAACCTTATTCGATCTGTAAGAACCGTGATGAGAGTGCCATTGATAAAGTAACTCAATTG
CAATTGTGTTACTTTTATTATTGGATGAATATCAGTGGAGAAAATGGAGACTCAGAAGAGGACATGCCAGTAGA
AGTTATTACTTTGGTCATTATTGGAATATTTATATCTTAGCTTGCTGACCTTGCACTTGCTAAAAATGTAAAGC
TGAAAATAAAACCAGGGTTTCTATTTATCTGTTTTTTTTTTTAAATGTTGCACTTGTTAGTTTCAATACAAAAGATC
AGATCATGAAAGGCAGTAACCTCTCCAGGACTGGAATATCTGATTGCTCAGTGTTAATAGTAGTTTCATGCTGTGGT
GAGATTGTTAAAAGGGTGCAAGACTGTTGCTTCTCTTTTTTAGATATTTTCTATCTCTCACTTCTCAGGGATG
AAATTCCTTTTTCAAAGTTTGAAGTTCCTTGCAACTTAGCCATGATGTGAGTGGTTATCCCTAGATAAAAATTAAA
AGGATTTTTAAAAAGTAATTACTGCACATAAAATGATAAATAGGTAATTTGAATAATTTTATTTAAGCTCCTTG
GTTAATTATTTTGTCTATTGTCTCAGCTATAAATTCAAATTTATACATACTATTGAGTATTAATATTCTCTGATT
TCAGGGAGAATTCTGTCAGTCACATGATGATTATGTTTTGTTTAAACAATTCTTCCATGCACTTGTTATTTTTAT
TAATTTGCCTGAATGATGAGACCAGACCAGTGTCTACAGATTTTCATTGTCAGAAAAATCTATAAGTCTGCCCTT
TTTACAATGATGATTTAAAAAAAACAACAGCGTAAATATTAGCCCACAAGAGCAGTCCTAAACAATCACAATTAC
ACTGTACTACCCAAGAAGACTGTTTATTGTGAAGCATTACCTTTCAAAAAATCATTACATTTCTATTTCTTGGT
GGAGCAGCACATTGTGGAGTGTGATTCTTAATTCCTCATTGAGTTTGTCAATAGGACATTGATGCTGGATAGGT
GTCCTTTGTTTTTATGTCTCAGACCATCTTGTGAGATTGTTGCCTATCTCAATAACAGTTTTATGCAGAAAGG
TTGAACTATGTAATGGTTTTTATGGAAATTATCAGTTACAATATTTTAAAGGTGTAGAATGGCATCTTTGTTT
ATAGGAGAACATTTGTAAATAAAGTTAAATTTCTAAGCCTTTAAAAATATTGTAAGTATAATTTCCATAAAAACC
ATTACATAGTTTCAACCTTCTGCATAAACTGTATTATGAGATAGGCAAACAATCTCACAAGATGGTCTGAGA
CATAAAAA

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FIGURE 1457

MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDQGIGGFGEPEGIKSQLMNLIRSVRTVMRVPLIIVNSIAI
VLLLLFG

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FIGURE 1458

GTCTGTAATCCGTGTCTCCAGTAGTAGCTGCAGTGACTGTAGGTATCGGTGTTCCCTATTATGTTAGCTTATGTCT
ATGGCGTAGTTCCAATTTCTCTTTGTGCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAGTTAGGA
TTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAGCAGAAG
CAAGACACAACCCAAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGAAAGCCACA
TGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTGGAGCCAGTATAA
CGGGGAGTCTGTCAAGGAAGTCCATGGTAAACTGTTTTAACAGGTTGGAAGTACAAGCAGATGTACAGAAAGAAC
GGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAAGCAATGG
CAGGATCCATTCTGAATTCCTACATCCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATATTGAGT
CAAAGCCATCCAAATTCAGGCACAACAGTGGAAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTCATGCTG
GCGGTTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAGGGAAAA
AATCAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATGCACAGT
TGTTAGAACAACAAGCACGAACCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTGTAGCAG
ATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTGTAGTCATGGTT
CCAGTGATTATCACACCCGCTTTGCTACTGTAAACATCTTCTGAGGTAGAAAAATGACCGTCTGAAAAATTTCC
CACATCAGTGTAGCATTTCTGTGGTTACCCAAAGTGCTTCTCTGAGGTTTACAGTGTTCATATTGCTG
AAGAATCATGGTAACAATGGAATAAAACCTAATGTTGATTTATATTTTTGGCGATGCACTAAAAGAAACAAATAACA
ACCACTCACATCAGACAATGGAATTTAAAGTTGCAATTCAGACTGAAATTTAGGCCCATAAATGCTGCAGATAA
TTACCACTGTACAACCGTGTGGAGCTGGTTGAACATACATGTGACTACTTAAGTTTCAGGTTACCAGCAAAAGC
CGGGTTTCATTATCATAATGCAGATACATTTCTGTGTTTCAAGCAAGGCATGTGTGTCATGTGGATCTTAGTTAC
CAAACTATGAAGTGAAGGCTTTAAAAGTGCATTATTTTAAAGGATAATAAATTTGAAGAGCAAGCATGTTTTGTG
TGTTTGCCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATTTGGTCTTAATTTATATAATCAATATAAAAT
ACTAATGCAATTTCTACAGCATTCAAATGAAGAAAACCTGAGGCTTTAGGGATAAGTGGTTAGTGATATTTTATTG
AAACCACTAAAGAGATAAGTTTAAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATTTCTATT
TATATCGGCATAAATTTCAATTTTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCATTGCTA
CCATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACCTTGAAATAGAAATACCTGGTAC
TCTATCTTGTATTATTGTTGATGCCATCTTAGAGGAAAAATGTAAAGGTAAGTAATTAAGCATATGACAGCAACA
AATAAGATACATAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAATCCACCTTTCTCTAAGG
GGAAGTTTGTACCCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGAGGATTT
TGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACTTGGATTATATATAAAAAATACAGGAAATAGGTAAACATGAA
TGIGATTAAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTACATAACC
TCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGTACAAAA
GGTCCATGTATGATTAGCATTATTTCTTTTGTGTTTATGGACAATGTTTCAGCTGACATAAGCAGAAGTTG
GCCAAAATACTGCCTGTACTGTAAATTTCTGTATAATTCACTTAAATAAAGCAGGTTAACCTCAAAAAA
AAAAAAA

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FIGURE 1459

MLAYVYGVVPISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDITTSVAEARHNPSIGEGSVGGLTGSL
ASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLVQADVQKERYSLSGESGTVSLGTVSDNA
STKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKE
ATAGKKS KSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMKT
SCSHGSSDYHTRFATVNILPEVENDRENSPHQCSISVVTQTASCSEVSQNLNHAEEHGNGIKPNVDLYFGDAL
KETNNNHSHQTMELKVAIQTEI

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FIGURE 1460

GGCACGAGCGGCACGAGCGGAGGGCGCCTCGCGGCAGGAGCGGGATTTCGGGGTCACGGGAACGGCAGGGGAA
CGGGATAAAGTTCCCGGAGAAAGGAAAGGAGAGCGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGAC
CTACAAGAACGGAGGACAGGGGCGCACGATGGTCCCGGGGGAGCGGAAACAAAGGCACGCAAAACGGAAAAGCG
TGTGTAGGGGAGCGGAAAAGGAAGTCACCACCGTGGCCTGCGACGAAATGCGGAAAAGTCTTTTGAAGACAGCCT
CTCTGTCTGGAAGGACAAAATTGCTACATCAAACAGGATTGTCACCTTTATAGTACATCCCATGGATTTTATGAGG
AAGAAGTGAAAAAACACTTCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCA
TTCTTACTCTGAACAATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTACAACCTCTGGAAAAAGTAA
TTGAATTGGAAAAATTGGACAGAGGGGAAAGGCCTCATTGTCCGTGGGGCAAAAAATACCTTTCTCTTCAGGATCTG
ATCTGAATGCTGTGAAAATCACCATAGGAATCTCCAGAGGAGACTTCCTTTAATAAGTGTGCGCTGGTTCAAG
GTTGGGCATTGGGTGGAGGAGCAGAAATTTACTACAGCATGTGATTTTCAGGTAAATGACTCCAGAGAGTAAGATCA
GATTTCGTCCACAAAGAGATGGGCATAATACCAAGCTGGGGTGGCACCACCCGGCTAGTTGAAATAATCGGAAGTA
GACAAGCTCTCAAAGTGTGAGTGGGGCCCTTAAACTGGATTCAAAAAATGCTCTAAACATAGGAATGGTTGAAG
AGGTCTTGCAGTCTTCAGATGAACTAAATCTCTAGAAGAGGCACAAGAAATGGCTAAAGCAATTCATCCAAGGGC
CACCGGAAGTAATTAGAGCTTTGAAAAAATCTGTTTGTTCAGGCAGAGAGCTATATTTGGAGGAAGCATTACAGA
ACGAAAGAGATCTTTTAGGAACAGTTTGGGGTGGGCCTGCAAAATTTAGAGGCTATTGCTAAGAAAGGAAAATTTA
ATAAATAATTGGTTTTTCGTGTGGATGTACTCCAAGTAAAGCTCCAGTGACTAATATGTATAAATGTTAAATGAT
ATTAAATATGAACATCAGTTAAAAAAAATTTCTTTAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTT
GAAATCTGAACCTATTTACCTCATTTCTTGCCAATTACTCCCTTGGGTATTTACTGCGTAATTGGAACATTTACT
AAAATAACACTTTTGGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1461

MAKSLKLTASLSGRTKLLHQTGLSLYSTSHGFYEEVKKTLQQFPGGSIDLQKEDNGIGILTNNPSRMNAFSGV
MMLQLLEKVIELENWTEGKGLIVRGAKNTFSSGSDLNAVKITIGISQRRPLISVALVQGWALGGGAFTTACDF
RLMTPESKIRFVHKEMGIIPSWGTTTLVEIIGSRQALKVLGALKLDSKNALNIGMVEEVLQSSDETKSLEEAQ
EWLKQFIQGPPEVIRALKKSVCSGRELYLEEALQNERDLLGTWGGPANLEATAKKGKFNK

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FIGURE 1462

ATGTTGGTGCTGTTTGAACGCTCTGTGGGTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTT
GATAGTTTATGGAAGAATTTGAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAGTT
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAACTAGGAGGGGTCATAAAGGAA
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACITATGAGAGGAATTCGTTTACAAATGGATGGA
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTCAGGCAATTTCCCTGTTAGATGACTTGGATAAAGAA
CTAAACAACCTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTGAATTAGGAAAAATTATTTTCAGAT
AATTTAACATACTGCAAGTGTTCACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA
CAAAATCGAATGATGGCCATTGCACCCAAATGTTACAGTCATGGTTGGGAATTAGTTGGAGCACGGCTTATTGCT
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAGATTCTTGGAGCTGAAAAGGCACTT
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTATCATGCTTCACTCGTGGGCCAGACA
AGTCCCAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAACTTTGGAAGAC
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAAGTG
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAA
GTGGCAGAAGAAGAAGAACATCTGTGAAGAAGAAGAAGAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA
CTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAGAGA
GAGAACGAGGATTAA

1611/2682
FIGURE 1463

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFQDTAEALAAFTALMEGKINKQLKKV
LKKIVKEAHEPLAVADAKLGGVKEKLNLSCHSPVVELMRGIRSQMDGLIPGVEPREMAAMCLGLAHSLSRYR
LKFSADKVDTMIVQAI SLDDLDKELNNYIMRCREWYGWHFPELGKII SDNLTYCKCLQKVGDRKNYASAKLSEL
LP EEVEAEVKAAAEISMGTEVSEEDICNHLHLCTQVIEISEYRTQLYEYLQNRMMAIAPNVTVMVGELVGARLIA
HAGSLNLAKHAASTVQILGAEKALFRALKSRDTPKYGLIYHASLVGQTS PKHKGKISRMLAAKTVLAIRYDAF
GEDSSSAMGVENRAKLEARLRTLED RGIRKISGTGKALAKTEKYEHKSEVKTYDP SGDSLPTCSKKRKIEQVDK
EDEITEKKAKKAKIKVKVEEEEEKVAEEETS VKKKKKRGKKKHIKEEPLSEEEPCTSTAIASPEKKKKKKKKR
ENED

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FIGURE 1464

GGCACGAGGCTCAGCGTTTGAGTCAGCCAGGAGTAGCAATAGGTTTGGCTTGGACTCCCTTAGGTGGAGAAATCA
TGTTTCGTGGAGGCGAGTGAATGGATGGCGAGGGCCAGTTAACTCTGACCGGCCAGCTCGGGGACGTGATGAAGG
AGTCCGCCACCTCGCTATCAGCTGGCTCCGCAGCAACGCAAGAAGTACCAGCTGACCAATGCTTTTGGAGTT
TTGATCTTCTTGACAACACAGACATCCATCTGCACCTCCCAGCTGGAGCTGTCACAAAAGATGGACCATCTGCTG
GAGTTACCATAGTAACCTGTCTCGCCTCACTTTTTAGTGGGCGGCTGGTACGTTTACAGATGTAGCCATGACTGGAG
AAATTACACTGAGAGGTCTTGTCTTCCAGTGGGTGGAATTAAGACAAAGTGCTGGCGGCACACAGAGCGGGAC
TGAAGCAAGTCATTATTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACGACAGGATTTAA
GTTTTGTACAGCAAGCTGCCTGGATGAGGTTCTTAATGCAGCTTTTGTATGGTGGCTTTACTGTCAAGACCAGAC
CTGGTCTGTTAAATAGCAAACGTAGGTCCAAATCTCAATTTTTTAGAATTTTAAGTTATGAAGTGCTCAAAGGT
ACTGACACAGTTGATTTTATTCACACCATTAGGGGTATGCAAGATGTCCCTGTTTTATAAACATAATCACAACAG
TAATAAACCTCAAGTAGTGGCTAGTGTTTAGTATAGAAATATAAGATGTTGATTTAGTAACTGATAAAAAATCGA
ATTCTTGCTTTTTTAGTGGGATCCTTACTGTCCCTGGAAGATATAGCATAGTGGTTCTCAGCACAGTCTCCAGA
ACAGAAGCATCTGTAGTACCTGGTAACCTTGTTAGAAATGTACATTCTCAGGCTCCACAGCAGGCCGCTGAATCA
AATCTGGGAGGTGGGGACAGAAATCTGTGTTTTAAGAAGCCTTCCAGGTAATTCTGCTGCACACTCAAGTTCAG
GAACCACCGGTATAGACCATTACCTTAGTGGATTTACCTGTAGAGTTTATTGGATCCTGAAACCAATCAATTACT
TAGAAGTGGCAAAGATGAAAGTATAGCCAACTATTCTTGGCTATATATATATATTCAAGTGGGCCGGCGTGAT
GGCTCACACCTGTAATCCAGCACTTTGGGAGGTGAGGTAGGCAGATCACCGAGCCCAAGAGTTCAAGACAATC
CTGGCCAACGGCGAAACTCTGTCTCTACAAAAATATACAGGCGTGTTAGCATGTGCTGTAATCCAGCTTCTT
GGGAAGCTGAGGCACAAGAATTGCCTGAACCCAGGAGGTGGAGGTGTCAGTGAGCTGGGATCGCGCCATTGCACT
CCAGCCTGGCTGACAGAGCGAGACTGTCTCTAAAAAAAAGACTCAAGTGGACCCTACAATGAAGCCTACACAT
CCCAATAGAAGCCCCCTTCTTATGCTGAGGGAAGCAGCCCTCAGAACATGATAGCTTGTATCCAGCAGAGTGGCAC
GTGCTGGCACACCTCACAGAAGCACCCCTGGCCCTGGATGCCTGCAACCTCAGAAGAGTGCAGCTCCCAGAGGGAG
GCAGCCATCCATCTGGGATGGTCCTAAGCATGGAATCCTAACTCCTGATTCCGTCTCCTATTTCTTGCTTGGCTA
TGCCAGTTCCCAAATCTGGTAGATGTCCATGCCATGTGCTCCTGCTGGGACTCAATTCAGGCTATGTATGACTA
TGAAGTCAGGCTCATCTGCTTACTGGCTGTGTGAACCTTTTTGTATCTTGGTTTTCTTCATCCATGAAATCCAAGT
AATACTACCTAATTGTTACTGTGGAGATTAAGTTCAAATGCAATGTATAGTAATATTAAGCAATTTCTAGTTATT
ATTCTAGCCAGTAATGGACTTCAGAATCTTTTATTACACAATATAAGAATATGTATGTAAAGACATTTTGAATTT
TCCTGGATGAGAAGGAAGTCTGGGCTGGGCATGGTGGCTCACGCCTGTAACCCTAGCACTTTAGGAAATCGAGGC
GAGTGGATCACTTAAGCTCAGGAGTTCAAGGCCAGCCTGGGCAACATGGCAAAACCCCATTTCTACAAAAAATAC
AAAAATTAGCTGGGCATGGTGGCACCCCGCTGTAGTCCAGCTACTTGAGGCTGAGATGGGAGGATGAGGGAGGTC
GGGCTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCACCCCTGGGCGACAGAGTGAGACCCTGTCTCAAAAA
AAAAAAAAAAAAA

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FIGURE 1465

MKESAHLAISWLRNNAKKYQLTNAFGSFDLLDNTDIHLHFPAGAVTKDGPSAGVTIIVTCLASLFSGRLVRSDVAM
TGEITLRGLVLPVGGIKDKVLAHRAGLKQVVIIPRRNEKDLEGIPGNVRQDLSFVTASCLDEVLNAAFDGGFTVK
TRPGLLSKL

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FIGURE 1466

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGAGAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTCAGAGGAGTTAATTTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT
ACATGGATCCTACTGGTAAACTAGAACTTGGGAATCAGTGAACGTACCAACCAGGAAAGAGCAGACTGCGGATG
GTGTCGCGGTCATCCCCGTGCTGCAGAGAACACTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCCGACCAC
CAATGGGGGGCTACTGCATAGAGTTCCCTGCAGGTCTCATAGATGATGGTGAAACCCAGAACGAGCTGCTCTCC
GGGAGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
TGTCAAACTGTACTATACACATCGTGACAGTCACCATTAAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
AGCCAGGGGATGGAGAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
TAGCTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCTACGCTCTAGCGCTGAAACATGCAAATGCAAAGC
CATTGGAAGTGCCCTTCTTGAAATTTTAAGCCCAAATATGACACTGGCCATTTTGTAAACGAGACCACCAGGCC
TTCTTCACTAAGACTTTGTATTCACTTAGTTTAATGTAGATTGCCATTAGCTTTTTCGTAAAATAAAAGCACA
GAACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
GCTAAAATTAACAAAGAAATATAAATGCAAGTATGTTTACTCCAATTTTTTAAAGCTCAACAGAGTTAACTACAG
CTCAGTTACTTTTCTAGTCCAGTCTGGAACACAGGGGIATTTGGTATTGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

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FIGURE 1467

MESQEPTSSQNGKQYIISEELISEGKWVKLEKTTYMDPTGKTRTWESVNVPTRKEQTADGVAVIPVLQRTLHYE
CIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCTIHIVTVTING
DDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAKPFEVPEFLKF

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FIGURE 1468

GCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTGCGGCCGCGAGCGGAGCCGGCTGAGCGGGCGCC
GAGCTCCCGCCATGCGCCGGAACACGCTGTCTCGCGCTTCCGCCGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCACAGAAA
ATAGCAGCGCAGTGTTACTCCAGTGGCAGAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTAAAAAAAATAAAAAGACTCATGTTACCTTGAGAAGAATTTCTGGATGCCCAGGCT
GGTGAAGAAGGGATTGACAATGGACCATCTTCCTAGGAAC TCCAAGTAAACTATTTAGGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTGGTCAGATGCAC
CTGTGTGCACTGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGAAAAAAACCCAAGAGTTTGTACAGACATCCTGTCTTCCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAGTGCCGTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1469

MARNTLSSRFRRVDIDEFDENKFVDEQEEAAAAAAEPGPDPEVDGLLRQGDMLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVLTNFKSSEIEQAVQSLDRNGVDLLMKYIYKGFEKPTENSSAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

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FIGURE 1470

ACGATGGCATGACAACCGACGTTGGAGTTTGGAGGTGCTTGCCCTTAGAGCAAGGGAAACAGCTCTCATTCAAAGG
AACTAGAAGCCTCTCCCTCAGTGGTAGGGAGACAGCCAGGAGCGGTTTTCTGGGAACGTGTGGGATGTGCCCTTGG
GGGCCCCGAGAAAACAGAAGGAAGATGCTCCAGACCAGTAACCTACAGCCTGGTGCTCTCTCTGCAGTTCCCTGCTGC
TGTCCCTATGACCTCTTTGTCAATTCCTTCTCAGAACTGCTCCAAAAGACTCCTGTATCCAGCTTGTGCTCTTCA
TCATCCAGGATATTGCAGTCTCTTCAACATCATCATCATTTTCTCATGTTCTTCAACACCTTCGTCTTCCAGG
CTGGCCTGGTCAACCTCCTATTCCATAAGTTCAAAGGGACCATCATCCTGACAGCTGTGTACTTTGCCCTCAGCA
TCTCCCTTCATGTCTGGGTCATGAACTTACGCTGGAAAACTCCAACAGCTTCATATGGACAGATGGACTTCAAA
TGCTGTTTGTATTCCAGAGACTAGCAGCAGTGTTGTACTGCTACTTCTATAAACGGACAGCCGTAAGACTAGGCG
ATCCTCACTTCTACCAGGACTCTTTGTGGTTGCGCAAGGAGTTCATGCAAGTTCGAAGGTGACCTCTTGTACAC
TGATGGATACTTTTCCCTTCCTGATAGAAGCCACATTTGCTGCTTTGCAGGGAGAGTTGGCCCTATGCATGGGCAA
ACAGCTGGACTTTCCAAGGAAGGTTCAGACTAGCTGTGTTTCAAGCATTCAAGAAGGAAGATCCTCCCTCTTGACA
ATTAGAGTGTCCCATCGGTCTCCAGTGCGGCATCCCTTCCCTTGCTTCTACCTCTGTTCCACCCCTTTTCTTC
CTTTCTCTCTGTACCATTCACTTCTCCCTGACCGGCTTTCTTGCCGAGGGTTCTGTGGCTCTTACCCTTGTGAA
GCTTTTCCCTTTAGCCTGGGACAGAAGGACCTCCCAGCCCCCAAAGGATCTCCCAGTGACCAAAGGATGCGAAGAG
TGATAGTTACGTGCTCCTGACTGATCACACCGCAGACATTTAGATTTTTATACCCAAGGCACTTTAAAAAATGT
TTTATAAATAGAGAATAAATTGAATTCTTGTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1471

MLQTSNYSLVLSLQFLLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIAVLFNIIIIIFLMFFNTFVFQAGLVNLLF
HKFKGTIILTAVYFALSISLHVWVMNLRWKNSNSFIWTDGLQMLFVFQRLAAVLYCYFYKRTAVRLGDPHFYQDS
LWLRKEFMQVRR

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FIGURE 1472

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC
AGCCCTGTCCCGGTGAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGGGCTGGGCCGCGCGGTGC
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGCTGTCTCTGGGAAGTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA
CAGGGACCCCTTCCCCGGCTCCCTGCCACCCCTGCCGGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA
ATCCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAAAATCTCCAGCTATTGCAGATC
CCAACCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA
TGCAGGTCCTGATGAAGTTGTAGGGCCAGAAGGAATGGAAAAATTTTGTGAAGACATTGGTGTGAACCTGAAAA
TATTATTATGTTAGTTTTAGCGTGGAAATTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA
TGATATTTGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTAGTATTTTACCAGTA
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA
TGCTGATCTTAGTAATATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT
CCGTCAGACATCATAGCAAGAACTATGTGAAGAAAATGCAACCTTTCAATCCCACGTGTATACAAGCTAATGT
GATGAGGGGGAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCCTTT
TTTTAAAGGAGGTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTTAGACTGAATATTGAAGTTT
TTGTTTTGAGTTATGTTTATAACATTTATTTTCAACAATAAAGATTGAGATTTGTGAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1473

MPVKKKRKSPGVAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQLNDISSFKNIYRYAFDFAR
DKDQRSLDIDTAKSMLALLLGRTWPLFSVFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDEGAWPVLLD
EFVEWQKVRQTS

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FIGURE 1474

TAACCTCTTCCCTCTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCTTCCCAGTAGAAACGTAGGAACAATT
TCGTGAACGCAATCCGGAGTGCCCAACATGGCGGCGCCGTAAGGTGCATGGGTAGAGCCTTGATACATCATCAA
AGGCATAGCCTTTCCAAGATGGTTTATCAGACATCACTTTGTTCTTGTCTGTAAACATCCGAGTGCCCAACAGA
CATTTTGCTGCTGCTACAAAGCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAA
GATGAAATAGAAAAAATAAAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAACGCTTA
TACCCGAGACAGATATATGAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCCTTGACTTTACTAGT
CCAAAGCAAAGTGTTTATCTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACC
AGTGTTCTTAGTTTGCCATACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAG
GTCAAAATAGCGGAAGAAAATGGAGCTGCATTTGCAGGAGGCACCTAGTCTGATACAGAAGATTTGGGATGATGAA
ATTGTTGCAGACTTTTACGTAGCTGTTCCAGAAATAATGCCTGAACCTAATCGATTAAGGAAGAACTGAATAAA
AAATATCCAAAGCTTTCTCGAAATTCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACAT
GAAATTAAGGTAGATGAAGAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAG
ATAGCTGCCAATCTGCAAGCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTA
CGTGCTTTCTTCGTAGTTCAACAAGTGAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAA
AATGAAGAAAGTGAAGAAAGAAGATGCCTAAATGTGGTGAATTGTGAAATTACTTTCAGTGGTTTAAGAAGCAATG
GAGAAAATGATAATACAGCATAATTTTACATTGATGTCTTGTATTGATCATACTTGAAAGTGAACCTTTAACA
TTGAAAAATCGTACAGTCATTTCAAGAATAAGAAAATAAAATTTCTCTTGTCTGAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

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FIGURE 1475

MVYQTSLCSCSVNIRVPNRHFAAATKSAKKTKKGAKEKTPDEKKDEIEKIKAYPYMEGEPEDDVYLKRLYPRQIY
EVEKAVHLLKKFQILDFTSPKQSVYLDLTLDMALGKKKNVEPFTSVLSLPYPFASEINKVAVFTENASEVKIAEE
NGAAFAGGTSLIQKIWDDEIVADFYVAVPEIMPELNRLRKKLNKKYPKLSRNSIGRDIPKMLELFKNGHEIKVDE
ERENFLQTKIATLDMSSDQIAANLQAVINEVCRHRPLNLGPFVVRAFLRSSTSEGLLLKIDPLLPKEVKNEESEK
EDA

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FIGURE 1476

TAGTCACGCTCGGTACCAGGCGCAGATCATGSCAGGCAGCCGGCTGGAAACCGTAGGGAGCATCTTCTCTCGGAC
TCGGGACCTGGTTTCGGGCCGGGGTGCTGAAGGAGAAGCCCCCTGTGGTTTGACGTATATGACGCCTTTCCCCCGCT
GAGGGAGCCCGTCTTCCAAAGGCCTCGAGTGCATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCA
CGAGGATCGGATTAGAGCGAAGTTTTATTTCAGTGATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAATCCAAA
CTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAACTTGGAGAAACAGATGAAGAGAA
GTTATTTGTGGAAACAGGGAAGGCTTTATTGGCAGAAGGTGTCATTTTAAGACGAGTAGGCGAAGCAAGGACTCA
ACACGGAGGTAGTCACGTTTCCCGGAAATCCGAACACTTGAGTGTGAGCCACAGACTGCGTTGGAAGAAAACGA
GACTCAGAAAGAAGTTCCACAGGACCAGCATTGGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCCCTCCCTG
AAGGACCTGTATACTGTGTATGCTGGCATTACACTCTACTCACTGGCTGAATGTTGAGCTATTTTTAAACAGTT
GAACTGTGTAAATGTTTCTTGATCTCTAAGGTATTATGTTTGCCTTCTCTTAGTTATTTCTGGGTTGTCACAAAG
CTCAGTATCATGGTTTGACAGAAGCAGTTATGTGAACTTTTATGTTAGGACATTACTAAATAAAGAATTCCCTAG
CTGCTTATAAAGTAAATTTACTTTGAATTGTAAATAACATGAAGAAACCTTTATAAAGATTGTTCAAATGGGACT
CAA

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FIGURE 1477

MAGSRLETVGSIFSRTDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPRVRYGKAKAPIQDIWYHEDRIRAKFY
SVYGSGQRAFDLFNPNFKSTCQRFVEKYTELQKLGETDEEKLFVETGKALLAEGVILRRVGEARTQHGGSHVSRK
SEHLSVRPQTALEENETQKEVPQDQHLEAPADQSKGLLPP

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FIGURE 1478

ACGGCGCCCGCCAGGAGCGCCCCCACTCCCAGGCCAGCCACCCCGGCGGACCGGGCCCCGCGCGCCAGGCGA
GGCACTGGGCTCCCTCTGCTCCCCGTGGGCGCTCCCCGCGTGGGGCCACTGCCCCGGCCCCCGCCATGGTGCG
GATTTCAAAGCCCAAGACGTTTCAGGCCTACTTGATGATTGTCACCGGAGGTATAGCTGTGCCCACTGCCGCGC
TCACCTGGCCAACCACGACGACCTCATCTCCAAGTCCTTCCAGGGCAGTCAGGGGCGTGCCTACCTCTTCAACTC
AGTGGTGAACGTGGGCTGCGGGCCAGCCGAGGAGCGGGTGCTGCTGACCGGCCCTCCATGCTGTGCGCGACATCCA
CTGCGAGAAGTGAAGACCACTTTGGGCTGGAAATATGAACAGGCCTTTGAGAGCAGCCAGAAGTACAAAGAGGG
GAAGTACATCATTGAACTCAACCACATGATCAAAGACAACGGCTGGGACTGACCCCCGCTCCCCGACGCATGTG
GCTCCAGCCCGGCCTGGCCGCCAGGGAGCGCCACTGGCTTCCCGCCACCCGAAGGGAGCTCTGGACCCTCAGAGC
CCCTGCAGAGGACGGATCTAGCTCCTGTATATATATTTTATTGCATGCACTGTGACCTTGGGGGGAGAACAGAAG
GGGGACGACGCCCCCGCACCTCCTGCGATCTGGCTGGCTTGGATCTCGTTTTTAACCCGTTCTGCCCCACCTGC
CCTATAGTTATGGCCTGTGTTCTGCTCTCCTGGTCCCAGTGCACCGTCTGCTCTGTGAACTCCTCCCACAGGCC
CTTCTTACCCCACGCGTGTCTGTCCCCCTCGTTCTGTAGCGTTTGTACATAATAAAACAATGGAGTGGAGACAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1479

MVRISKPKTFQAYLDDCHRRYSCAHCRAHLANHDDLISKSFQGSQGRAYLFNSVVNVGCGPAEERVLLTGLHAVA
DIHCENCKTTLGWKYEQAFESSQKYKEGKYIIELNMIKDNWD

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FIGURE 1480

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCCATGGG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGACAAAACACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCGTG
ATTAAAAAGGATGTGGTATGAGGATCCATTTCAAAAGTATAGATTTGCCCCAAACCTGTACCATTTCGGTATTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGAGAGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGCATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTCTTACCA
CCTGAGAAACTAAAT

REPLACEMENT SHEET

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FIGURE 1481

MGSLSGRLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFPHLQQAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARS LPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

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FIGURE 1482

TCCAGCACCAAAGCGGCCGTTCTCGGATTCCGGAGCGTTCTGGAGCCCCGAGAGACGCCCCGGGGTTCTAGAAGC
TCCCCGGCGCGCCAGTCCCGGCTTCATTGGGCGTCCCTCCGAAACCCACTCGGGTGCACGGGTCTGTCGGCGA
GCCGCGACCGGGTCTTGGCGCGCACCATGATCGTGGCGGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGC
GGTTCGCCCCGGGCGGCGTCCGCGACTCGGGCCCCGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCGAGGCCCTC
GAGGGCCAGCGCCTTCATCCCCGTGGAGGAGTCTTCGGGAGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGC
TGGAGGCACTGATGTCTCTGGGCGAGTAGACAACCTGGCAGTGGTGATGGGCCTGCACCCTGACTACTTTACCA
GCTTCTGGCGCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGGCCAGCTCCTGGCGCCACTACATTGCCA
TCATGGCTGCCGCCCCGCCATCAGTGTCTTACCTGGTAGGCTCCACATGGCCGAGTTTCTGCAGACTGGTGGTG
ACCCTGAGTGGCTGCTGGGCCCTCCACCGGGCCCCGAGAAGCTGCGCAAACCTCAGCGAGATCAACAAGTTGCTGG
CGCATCGGCCATGGCTCATCACAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCACACTTGGTCCCTGG
CCGAGCTCATTAGGCTCTGGTCTGCTCACCCTGCTGCTCCTCTCCTTCTGTTTGGCTGTGGCATCC
TCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCCCAGGCACCTACACCCCTAGTGAACAGAGCAGCCCCCAA
GCAGGGACCCGTTGAACAACCTCTGGGGGCTTTGAGTCTGCCCGCGACGTGGAGGCGCTGATGGAGCGCATGCAGC
AGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCCAGGAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGT
CAGAGAGCCTGCTGGTGACCCCTCAGCTGACATCCTGGAGCCCTCTCCACACCCAGACATGCTGTGCTTTGTGG
AAGACCCTACTTTTCGGATATGAGGACTTCACTCGGAGAGGGGCTCAGGCACCCCTACCTTCCGGGCCCAGGATT
ATACCTGGGAAGACCATGGCTACTCGCTGATCCAGCGGCTTTACCTGAGGGTGGGACAGCTGCTGGATGAGAAGT
TCCAGGCAGCCTATAGCCTCACCTACAATACCATCGCCATGCACAGTGGTGTGGACACCTCCGTGCTCCGAGGG
CCATCTGGAATATATCCACTGCGTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACCAGCTCC
TGGAGCGGAACCTCAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACC
TCTTCTGGAGGCACTTCCGCCACTCAGAGAAGGTCCACGTGAACCTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
CTCTGCTGTACGCCCTCCGTGCCATCACCCGCTACATGACCTGACTCCTGAGCAGGACCTGGGCCCGGTTTCACT
CCCCACAAGGACTTCTCTGTCTGGAGACAGCCCCAGACCCTTTTGTGTCCTATGCCACCCCTCCCCACGCTGCAG
TGGGCTTGTGTGTGATGTGCAGTCCCGAAGCCACACCCTCCCTTTTCTCACTGGAATGGACAGTTTATTGCACT
GACTCTGGGATCTCAGCCCTGCTCCTGGGAGCTGGAAGAGCACTTGGAGATCCTAAGGGACCACACCCTTCTCC
TTCCCTGCCACAGAGGCAGAGGGCACAGGAAGAAGCCGGGCCAAGCTCGGAATTAATGTGCCACAAGTGTG
TGGCCTTCTGAACTGGGAAGTCCCTGGCTGGCCCCGGGGGAGAGGGGCAAATGCCTCCGGGACTGACACTCCA
GGCAGCTTTGCTTCTCTCCCTGTCTATTTCCAGATTTCACTACCTCCTACTTGCCATTCACCATCAATGTGAA
AGTCAGGGTCACAGCTGGTCTGTGTGTCCAGTTCCCTAAAAGCCTGTCTGTGGGAGCCTGAGGCTGTGCCC
GAATCCTAGTTAGTTTTTGACTTCTTTGCCCTTTTCCCTTTTCTCCATGCTTAATGGTGTGAGGCGTCAGG
AGAGAGGCCAAGTACATAAAAAAAAAAAAAAGCAGATTATCTCTAGAGAGTTTGAGCCTTTGCTGGTCACATTGC
CTTCTGAAGAGGAGGGAGTATTAGATTATAAATCCTCTTTATTTTGGTCTTTATGCTTGAGGTTCCAACCTGGA
GCCACAGTGTGTGAGAGGAGGAGGAGAGGAATCTGTTCTCCAGAGCTGCACCTGCCTCGCAGAGGCCAGC
ACCCCACTCTCCTGCCTCCAGTGGCCCTGCCGAGATGTCTCCCAAAAAGTTGAGCCTTCTAGATGGCTTAGGT
GGCACCATGGCTCAGCAGGAGGGGCGGGAGGCACCAAGGTTCTTGTGTTGGACCCTGCCCTGGGCCATGGCCAGG
TGACCATGGCTACATTGCCAAACCTCTGACTGCCACAGCTGCAGACTGAGAGGGTGGTCTGAGTCCCAATG
TCTGAAGCTGCCCTGGGATTCTCAGGCCAACCTGCCAACAGCAAGCGGATTTTCTTGCAAGATCAGGGACCCCA
TTTCTGCAGCCAGTGTCTCCTGGGTGCCTTCTGAGGACTCCACCCCATCCAGTATCTCATCTGTCCCTCTC
CTGGGGCTTAAAGTGGGTGCTTCCAGGCAGAAGCAGCAAGGACCGATTCCAGGCATTTCTGTAGCAATGACT
GTGAATTACGACTTCTCTTGCCCTTCTTCTAGCAGTCTGTGCTCCTCTCTGACCAGTTTGGAGGGCACTGAAGA
AAGGCAAGGGCCGTGCTGCTGCTGGCGGGGAGGAGAGGAGCCTGGCCAGTGTGCCACATTAAATACCCGTGCA
GGCGCGGAGAAGCAACCGGCACCCCTTCCGGCCTGAAAGCCCTCCCTGCAAGAAGGTGTGAGGAGAGAGAGG
CCCCGCAITGGGATCTGGGTTCTAGAGGCATGTGATGACTGTAAATGTTCACTGGGTGGGTAGGGAGTGGTAT
CCAGTGTTCAGTGCAGAAATCTTTGGCTTTGCTACCAGTTCATATGATGAGAAATAACGTTCTGCTGAGGTTT
TGTTTCATAAAAAAAAAAAAAAAAAA

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FIGURE 1483

MIVADSECR AELKDYLRFAPGGVGD SGPGE EQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWR LHYLL LHTDG PLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGCGILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEP\$PHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYS LIQRLYPEGGQLLDEKFQAAYS LTY
NTIAMHSGVDTSVLRRAIWNYIHCVF GIRYDDYDGEVNQLLERNLKVYIKTVACYPEKTTRMYNLFWRHFRHS
EKVHVNLLLLLEARMQAALLYALRAITRYMT

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FIGURE 1484

GGGGA~~CT~~CCGGGAGGAGGAACATGCCGTGGCGGACCTCGCTCTCATTCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTACAGTGTACGGCTATT
CCATGGCCTATGGTCTGCCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
CCTGGGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGGCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
TTTGCCTGCACTCCTCTTGAGGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCTTAAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1485

MAVADLALIPDVIDSDGVFKYVLIRVHSAPRSGRLRQRARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVTRRFTCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACPLA
GLALPAPAAASGDVLSTRPWRQASLATELNVLPHLPAS

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FIGURE 1486

GGCACGAGGGCTGCCTGGCGCTGCGGGCGGCGGGCCATGGTGGTTTGGATTGAGCCGGGCCCGGCCGGGGCGCCG
AGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTGGCTGACTGGGGAGTCGGCAGGCGG
CAGGAACCATCGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCTCTGCCTCCGCCTCCTTCTGCTGCTGG
GTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCGCT
CCCTGCTCTACAACCTCCTTTGGGGGCGAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGGCTGGTAG
ACAACGTGATCCGCTGGTTTGGAGTGGGCGAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCATTTACC
CCAAGCCAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCCTGGC
TAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTTCTGCTTTTTTCATGACTCTGGGCTGTGTCT
ACTGCAGCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGACTTATCACCAGACCCACAC
CCACCTTCTCCTTTTCGAGAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCCCTGTGCAGTTCTGTGGCAC
TTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA
ACAAGAAGGAGAGACGTCGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACA
ACTGGAAGGTATTCTTGGGTGTGGATACAGGAAGGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGC
CCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAG
CTGGACTGTGTCAGCCACGACTCGAGCACTCATTCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTT
TCTCAGAATCCTTGATCAAAAAGAGCCAGTGGGCCTGCCCTAGGGTACCATGCAGGACAATTCAAGGACCAGCCT
TTTTACCCTGCAGAAGAAAGACACAATGTGGAGAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAG
TTCCAACCCAGACTAGGGGTGAGGCGCTAGCTACCTACCTTGCCCAGTGCTGACCCGGACCTCCTCCAGGATA
CAGCACTGGAGTTGGCCACCACCTCTTCTACTTGGTGTCTGAAAAACACCTGACTAGTACAGCTGAGATCTTGG
CTTCTCAACAGGGCAAAGATACCAGGCCTGCTGCTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCAC
AAATAAAGGTATTTCGATTTTAAAGATAAAAAAAAAAAAAAAAAA

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FIGURE 1487

MRGQRSLLGPARLCLRLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPPVYWLVDNV
IRWFGVGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHC PWLNNCVGHYNHRYFFSFCFFMTLGCVYCS
YGSWDLFREAYAAIETYHQTPPTFSFREERMTHKSLVYLWFLCSSLALGALTVWHAVLISRGETSIERHINKK
ERRRLQAKGRVFRNPYNYGCLDNWKVFLGVD TGRHWL TRVLLPSSHLPHGNGMSWEPPPWVTAHSASVMAV

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FIGURE 1488A

GAGCGGTTGGCGCAGGTGTCTGGGGTCTCTGAGCGCCAGCCTGGGAGCATGATTGTGGACAAGCTGCTGGACGAC
 AGCCGCGGCGGAGAGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCTCATGACCAGCCCGCTCAACCTGAGCTAC
 TTCTACGGCGCGTCGCCGCCCGCGCGCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTTGGGCCCCCTCGGCG
 CCCGGCTCGCCCCGGCTCCGACTCTCTCCGACTTCTCTCTGCTCTGCTCGGTGTCTCTCTGCGGCGCCGTGGAGTCC
 CGGTGAGAGGCGCGCCCGCGCCGAGCGCCAGCCAGTTGAGCCCCATATGGGGGTTGGCAGGCAGCAGAGAGGC
 CCCTTTCAAGGTGTTCTGGGTAAAGAACTCAGTGAAGGAACTCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
 TCTGGCCAAGCTGTGGATGATTTTTAAGACACAAGGTGTGAACATAGAACAGTTTCAGAGAATTGAAGAACACAGTA
 TCATACAGTGGGAAAAGGAAAGGGCCCCGATTCTGTTGTCTGATGGACCTGCTTGCAAAGGCCAGCTCTGTTGCAT
 TCCCAATTTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTTTCATCTCAATGAACCCAA
 CAGGAGAGCAGTGTCTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
 GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGGACTTCCATGGA
 GGGCAGGTCTTTTTCTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
 TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCCACAAACCAACTCTGGAA
 TACAGTCTTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAAACCTCTTTGATGGTCCAGAATCACAGTTT
 TGCCCAAAACCAAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCAGACT
 TCCTCCAGTGTTTCAGCAGCAAAATGATGCTCACTTGACAGCTTCAGCATGATGCCAGCAGCGCTGTGAGGCC
 ATGGTGGGGCAGGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
 ACCACACAGTTAGGGAATCACTTTTTAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTGGCAAATATTTCCCAA
 GACCAGTTTCTTTCAAAGGATGCAGATGGTGACACGTTCCCTCATATTGCTGTTGCCCAAGGGAGAAGGGCACTT
 TCCATGTTTCTTGCAAGAAAGATGAATGCACTTCACATGCTGGATATTAAAGAGCACAATGGACAGAGTGCCTTT
 CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGACAGGTGAACACCACA
 GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCCAGGTGCTTCAGGCGATTGAGAAG
 GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCTTCACTGTGCA
 GTCATAGCCCACAATGCTGTGGTCCATGAACTCCAGAGAAATCAACAGCCTCATTACCTGAAGTTTCAGGAGCTT
 TTAAGTGAAGAATAAGAGTCTGGTTGATACCATTAAGTGCCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
 CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTCATTGCGCTCTTTTTGGAG
 CTGCCCAGTTGCCGTGCTTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
 CAGTATCGGTTGACACAATTAGATGCTGTCGCGCTGTTGATGAGGAAGGGAGCAGACCCAAGTACTCGGAACTTG
 GAGAACGAACAGCCAGTGCATTTGGTTCGCGATGGCCCTGTGGGAGAACAGATCCGACGTATCCTGAAGGGAAAG
 TCCATTTCAGCAGAGAGCTCCACCGTATTAGCTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTCAGTTAG
 GCAGTCTGATGTATCTGTACATAGACCATTGTCCTTATATTGGCAAATGTAAGTTGTTTCTATGAAACAAACAT
 ATTTAGTTCACTATTATATAGTGGGTTATATTAAGAAAGAAAGAAATATCTAATTTCTCTTGGCAGATTTG
 CATATTTCAATACCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
 GTAGCTTTTGAGTAGGAAAGGACTTTGATTGTGGCACAAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
 AGGTAATTTGTAATGTTTCTTTAAGAAAAAGCATGTGAAAGGAAAAAGGTAATACAGCATTGAGGCTTCATTT
 GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
 AATTTGATCTTTGCAAACTGTATATAATTGTTATTTTGTCCCTTAAAAATATTGTACATACTTGGTTGTTAAACAT
 GGTCAATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAAGTGAATTGTTGCTATTTAAAAAAATTTTACA
 ATCTTACTAAGAGAGTTTATTGTGTATAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
 TCCTTTACTGGCTGAAAGATATATTGCAATTGTAAAGATCGTTTTTCTCATGCAATTGAAATTATACATTATTTGT
 AGGGAATTGCATGCTTTTTTTTTTTTTTCTCCCGAGACAGGCTTTTGCTCTGCGCGCCAGGCTGGAGTACAGTGG
 CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGTAACTGGGAC
 TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCAGGCTG
 GTCTTGAACCTCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCCAAATGCTGGGATTACAGGAGTGAGCCACC
 ATGCCCGGCTGGCAGTTGCATGGAAGAGAACACCTCTTTATGGCTTACCCTCTAGAATTTCTAATTTATGTGTTT
 GTTGAATTTTTTGTTTTTTTTACCTTTATTGAAACAACAAAAGTCAGTATTGAAACATATCTTCTGTTTTCTG
 TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTGAAAAAGTTTTATTTTTTAATAACATTCT
 TATTAACATTATTTTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTTGTG

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FIGURE 1488B

ATAAATTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAGAAAATCTCATTAGTGAACCTTATCTTTG
CAGCTGAGTACTTAAATTCCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTATGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTACATTGGAAAACT
GATGGTTTTAAATAAACTAATTCATAATAAAAAAAAAAAAAAA

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FIGURE 1489

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQFVEPHMGVGRQQRGPFQGV RVKNSVKELLLHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPDSLSDGPACKRPALLHSQFLTPTPTPGESMEDVHLNEPKQESSADLLQNIINIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPQKQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HYTHKPTLEYSPPFIPPOSPAYEPNLFDPESQFCPNQSLVSLGQDQRESENIANPMQTSSSVQQQND AHLHSFS
MMPSSACEAMVGHEMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEE SKLANISQDQFLSKDADGDTFLHI
AVAQGRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVANQHLIVQDLVNIGA QVNTTDCWGRTPLHVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPHSPEVQELLLKNKSLVDTIKCLIQ
MGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELP SCLSFVNAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GADPSTRNLENEQPVHLVPDGPVGEQIRRIKKGKSIQQRAPPY

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FIGURE 1490

ATGGGGAGGTCCTCCATGCGCAGTCAATGAGTCGCTTCAAGTTTATCGATATTGGTATCAACTTGACTGACCCTAT
GTTTACAGAGGAATTTATAGGGGGTTCAAAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTCGAGAT
TGGTGTAAAAAGTTTATGATTACAGGTGGAAATCTACAAGACAGTAAAGATGCACTGCATTGGCACAAACAAA
TGGTATGTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAGAATAACCCTGATCTTTA
CTTAAAGGAGTTGCTAAATCTTGCTGAAAACAATAAAGGGAAAGTTGTGGCAATAGGAGAATGCGGACTTGATTT
TGACCGACTGCAGTTTTGTCCCAAAGATACTCAACTCAAATATTTTGAAAAACAGTTTGAAGTGCAGAACAAAC
AAAATTACCAATGTTTCTTCATTGTGAAACTCACATGCTGAATTTTGGACATAATGAAAAGAAATAGAGATCG
GTGTGTAGGGGGAGTGGTGCATTCATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTGATTGACTTGGATCTTTA
TATAGGATTTAATGGTTGCTCACTGAAACTGAAGCTAATTTGGAAGTTTGAAGTCAATTCCTAGTGAAAAATT
AATGATTGAGACAGATGCACCTTGGTGTGGAGTCAAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATT
TCCTACCAAAAAGAAGTGGGAAAGTGGGCAGTCTTAAAGACAGAAATGAACCCTGCCATATAATTCAAATATT
GGAGATAATGTCAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATATAACAATACTATTAAAGT
ATTTTTTCCTGGAATATATAATTGGTATATGCTTCCACTTCCATCATGTATGTAAAAATTCATAGTAAACTTCC
TGATAGTTTCAATAAAGAAATTATCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1491

MSRFKFIDIGINLTDPMFRGIYRGVQKHQDDLQDVIGRAVEIGVKKFMITGGNLQDSKDALHLAQTNGMFFSTVG
CHPTRCGEFEKNNPDLYLKELLNLAENNKGVVAIGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMFLHC
RNSHAEFDIMKRNRDRCVGGVVHSFDGTKEAAAALIDL DLYIGFNGCSLKTEANLEVLKSIPSEKLMIEDAPW
CGVKSTHAGSKYIRTAFTKWKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFPGI

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FIGURE 1492

CGGAGCCCCCTCGGCGGGCGCCCGGCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCAACGCCG
AGACCCCCCGCCCCGCCCCGCGCTTCCTCCCGACGCAGAGCAAACCGCCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCGTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCTGTCAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCATCTCCACATCCGGCTATGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTTCGGGTCATCTTCGAAGCCGCTTCATGTACGCTTC
TATGTCAGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGCAACGCCTGGCCTTGTCCCAACACTGTGGAC
TGCTTTGTGTCCCGGCCACGGAGAAGACTGTCTTACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCACTGAATTTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAAGCCAGTTTAAACGCATT
GCCCAGTTGTTAGATTAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCTTAAAGCCTCAAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCAGGCTGTAGGGGTTATTGGTGTAAGGTACTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTCTCTGAGGACAAGAGAAAAAGCCAGGTTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCTCTCGGGTCTTTTGGCAACTTCCCCACGTTAAAGGTGAACATTGGTCTTTTCATTTGCTT
TGGAAGTTTAAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACACTTTTGGGAAGTGAAC
TTTGTAGTATGATAGGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCTGTTCAGAGGCTC
AGATTGTAATATGTAAATGGTATGTCATTGCTACTATGATTTAATTGAAATATGGTCTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGCTGTTGTATTGTTGTGTCATAGCACCTAACACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTATGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTGCTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGAGAAGTTTCTGTCGTTAAAAACAGATTTGGAAAGACT
GGACTCTAAATTTCTGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTGTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATAACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAAATGGTACTCCACATACCTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAAAGCATTGTGTAATAATAAAGAATAGCTTTAAT
GATATGCTTGTAACATAAATAATTTGTAATGTATCAAATACATTTAAACATTAAAAATATAATCTCTATAATAA
AAAAAAAAAAAAA

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FIGURE 1493

MDWGTLQTLGGVNHSTSIGKIWLTVLFIFRIMILVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKFIEKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMDGFSMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTELCYLLIRYCSGKSKKP
V

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FIGURE 1494

GAGGCGCCGGCGGCCACGCCGCGGAAGGCGCGGGCCGAGCAGAGCCGGGCGTTGGAGCCCGCGCGCGCATGGAGG
CGTTGCCGGCAGCCCCCTGAGGGCAGCGGGGAGACAAGACCCGGCGACCTCGCGCATCCCTCGAGCCGCCACGCG
CTCTCGCCACCGGGCGGGCAGCGGGCCGCGGAGCCGGCGCGGCCATGCGACGGGCGGGCCAGCAGAAGGAGAACAC
GCTGCTTACCTCTTCGCCGGCGGGTGTGGAGGCACAGTTGGTGCTATTTTCACTTGTCCACTAGAAGTCATTAA
GACACGGTTCAGTCTTCAAGATTAGCTCTCCGGACAGTCTACTATCCTCAGGTTTCATCTGGGGACCATTAGTGG
AGCTGGAATGGTGAGACCAACATCCGTGACACCTGGACTCTTTCAGGTTCTGAAGTCGATCTTGGAGAAAGAGGG
ACCAAAGTCACTTTTTAGAGGCTTGGGTCCAAATTTGGTTGGAGTTGCACCATCAAGGGCTGTATACITTCATG
TTACTCCAAAGCCAAAGAGCAATTTAATGGCATTTCGTGCCTAACAGCAATATTGTGCATATTTTCTCAGCTGG
CTCTGCAGCTTTTATCACAAATTCCTTAATGAATCCTATATGGATGGTTAAAACCCGAATGCAGCTAGAACAGAA
AGTGAGGGGCTCTAAGCAGATGAATACACTCCAGTGTGCTCGTTACGTTTACCAGACCGAAGGCATTTCGTGGCTT
CTATAGAGGATTAACTGCCCTCGTATGCTGGAATTTCCGAACTATAATCTGCTTTGCTATTTATGAAAGTTTAAA
GAAGTATCTGAAAGAAGCTCCATTAGCCTCTTCTGCAAATGGGACTGAGAAAAATTCACAAGTTTTTTTGGACT
TATGGCAGCTGCTGCTCTTTCTAAGGGCTGTGCCTCCTGCATTGCTTATCCACACGAAGTCATAAGGACGAGGCT
CCGGGAAGAGGGCACCAAGTACAAGTCTTTTGTCCAGACGGCGCGCCTGGTGTTCGGGAAGAAGGCTACCTTGC
CTTTTATAGAGGACTGTTTGGCCAGCTTATCCGGCAGATCCCAAATACTGCCATTGTGTGTCTACTTATGAGTT
AATTGTGTACCTGTTAGAAGACCGTACTCAGTAACAGAGGCCGGAATTTGTGCTCTAGAAGAATAAACTGAAAAA
CTCTAGAGAATTTTTTTTCCCATTTGATGTTTAGAAAGTTTGAGACTGAAACAGGAAAGGCCATAAAATATCTGG
TTCATATCACCTGTTGGACATTTCCTTTTGGATTGATGCTTTCTGGAAGGTTTAAATTCATTACGTTAATAGTT
AATTATAACTTTTTTTTAACTTAAGAGGATTCAGGGTTAAGCACCACTAAATTAATCATGCTATTTAATTTAA
GTATAACC

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FIGURE 1495

MATGGQQKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSVTPGLF
QVLKSILEKEGPKSLFRGLGPNLVGVAPSRVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAFITNSLMNPIW
MVKTRMQLEQKVRGSKQMNTLQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANG
TEKNSTSFFGLMAAAALSKGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIP
NTAIVLSTYELIVYLLEDRTQ

1645/2682
FIGURE 1496

GGCAGCCGTCCTGTGCCACCCAGAGCCGGCGGGCCGCTAGGTCCCCGGAGACCCTGCTATCGTGCGTGCGGGCGCC
GTGGGGGCTCATCTCCCCGCGTCCGGCTTGGATATCTTCGGGGACCTGAAGAAGATGAACAAGCGCCAGCTCTAT
TACCAGGTTTTAACTTCGCCATGATCGTGTCTTCTGCACTCATGATATGGAAAGGCTTGATCGTGCTCACAGGC
AGTGAGAGCCCCATCGTGGTGGTGCTGAGTGGCAGTATGGAGCCGGCCTTTCACAGAGGAGACCTCCTGTTCTC
ACAAATTTCCGGGAAGACCCAATCAGAGCTGGTGAAATAGTTGTTTTTAAAGTTGAAGGACGAGACATTCCAATA
GTTTACAGAGTAATCAAAGTTCATGAAAAAGATAATGGAGACATCAAATTTCTGACTAAAGGAGATAATAATGAA
GTTGATGATAGAGGCTTGTACAAAGAAGGCCAGAACTGGCTGGAAAAGAAGGACGTGGTGGGAAGAGCAAGAGGG
TTTTTACCATATGTTGGTATGGTCACCATAATAATGAATGACTATCCAAAATTCAGTATGCTCTTTTGGCTGTA
ATGGGTGCATATGTGTTACTAAAACGTGAATCCTTAAATGAGAAGCAGTTCCTGGGACCAGATTGAAATGAATTC
TGTTGAAAAAGAGAAAACTAATATATTTGAGATGTTCCATTTTCTGTATAAAAGGGAACAGTGTGGAGATGTTT
TTGTCTTGTCCAAATAAAAGATTCACCAGTAAAAAAAAAAAAA

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FIGURE 1497

MVRAGAVGAHLPASGLDIFGDLKKNKRQLYYQVLNFAMIVSSALMIWKGLIVLTGSESPIVVVLSGSMEPAFHR
GDLLFLT NFREDPIRAGEIVVFKVEGRDIPVHRVIKVHEKDNGDIKFLTKGDNNEVDDRGLYKEGQNWLEKKDV
VGRARGFLPYVGMVTIIMNDYPKFKYALLAVMGAYVLLKRES

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FIGURE 1498

GCGGAGCCGGGGCTGGAGAGCGGGGACCACTGCGGATCTCGGAAGGAAGAAATGATGTAAATCACTCATCCAAAC
TTTAAGGTCAAAGGTGAGAAGGAAGGTGAGGAAGAACATGGCCTGGCCAAATGTTTTTCAAAGAGGGTCTCTGCT
GTCCAGTTCAGCCATCATCATGTTGTAGTGTTCCTGCTCACTTTCTTCAGTTATTCGTTGCTCCATGCTTCACG
AAAAACATTTAGCAATGTCAAAGTCAGTATCTCTGAGCAGTGGACCCCAAGTGCTTTTAAACACGTCAGTTGAGCT
GCCTGTGGAGATCTGGAGCAGCAACCATTGTTCCCCAGTGCAGAGAAAGCGACTCTTTTCTCGGCACACTGGA
TACCATTTTCTCTTCTCTATGCTGTGGGCTATTATCAGTGGCATCGTTGGGGATCGGTTGAATTTGCGATG
GGTTCTGTCTTTTGGCATGTGCTCTTCTGCATTAGTGGTGTGTTGTTGTTGTTGTTGCGCTCACAGAAATGGCTGCGTTT
CTACAACAAATGGCTGTACTGCTGCCTGTGGATTGTGAACGGCCTGCTGCAGTCCACTGGTTGGCCCTGTGTGGT
TGCTGTTATGGGCAACTGGTTTGGGAAAGCCGAGCAGGAGTTGTTTTTGGTCTCTGGAGTGCCTGTGCTTCGGT
GGGCAACATTTTGGGAGCGTGCCTAGCTTCTCTGTTCTTTCAGTATGGTTATGAGTATGCCTTTCTGGTGACGGC
GTCTGTGCAGTTTGTCTGGTGGGATCGTTATCTTCTTTGGACTCCTGGTGTACCAGAAGAAATGGTCTCTCGGG
TATTGAGGCAGAAGAAAACCTTGAAGAAGACTCACACAGGCCATTAATTAATGGTGGTGAAAATGAAGACGAATA
TGAGCCGAATTATTCAATCCAAGATGATAGTTCTGTTGCCCAAGTCAAGGCGATAAGCTTCTACCAGGCATGTTG
CCTTCTGGAGTACATACCGTACTCACTGGCCTACGCTGCTTGAAGTTAGTGAATTACTCCTTCTTCTCTGGCT
CCCCTTTTATCTGAGTAACAACCTTCGGCTGGAAGGAGGCGGAAGCCGACAAGCTGTCCATTTGGTACGACGTTGG
AGGGATCATAGTATTTAGTGTCTCTGATCCGGGACAAGCTAGGATGGATGTGGGTTTTCTACTTTTTCTCTCA
TGACAAGTTGTACAATTGTGTTTATCTCGCCATTAATAGTGAGGGAAATATTCTCTCTCGTGCTAAGGAGACAGG
CTCACAATATTGAGGGAGTGACCGGTGCCCCGAGAGCAGAAAGAACAATGTCAGCCACATCAGGACCGCTGGGGCT
TCGAGTCTGCCCTAATTTGGGTTTGTCTAGGAGCTCCAGCCTGATCTTGGATTGTGAGGCGTCTCTCAACACTGC
CAGCCACCTGAGATGCTGACCAGCAGTGAAGGCTGCAGTATTTTCTACTACAGGAATTACTGTTGATGATTT
TTGCTGTTGTTTTCATGAATGTGCCGAGTGACTTCTGACTCTGCCAGCATCTTTGACCTCTGACTCTGCCCGCGTC
TTTGTGTTGGCCTATTGAGGTTTAGCGTTTTAACCTTAAGTGTGTTTGGACTTGAACCTTCTCTAGCCTTGAAA
ATGGAGTGAACAGGAGGCAAAGCCACGCGTGGTTTTGTGTGGTGGTATGTCCACAATGAAGAGATCAITGCA
TTTTGCTTTGGTAAATGAGTTTACAGAGAGTGGGTCACTTTGAAGCATCAAATCCTGATCAAATGCTCAAGCTGG
ACCGAGCTGCAAGCCTGCCTTGGACAAAGAATCCCTCTGTTCACTGTGGTGGGAAAGATCACACTACATGCCGTG
TGATTGGCTCAGTCACTCTGTGTCTGATCTAAACGTCATTACGCCCTAGAAGCATGAATTGCTTCAAATTATGT
CAACTTGTCTCTTCCATTTTCAATCAAATTAACCTTTGACTCCTGGAAGTATTGAGTCTTCTTTCAAGGACCAT
AAGGTACATCAGTTATCTTGAACATTCTGACGTGTAAAGGACCATAAGGTACATCAATTTATCTTGAACATTCCGA
CGTGTAACTCACAGCCGAAGCACTCCATCCAGATTTGTGTCTGGGAACCTTAGGATCCTTAGGAAGCTAATC
TGCTTAGTCTATTTTTAGAGGATTGATCTCTGGCACAACCAGCTTCTGGAGTTACCTCAGCAGAAGACTAGAAT
TAGAGAAAAGGGAAAGACCTTTTCTTCTAGTAAGTGTCAAGTACAGATGCTCTTTGACTTATGATGGGGTTATGT
CCCAGTAAACCCATTGGAAGTCAAATGCATTTAATACCCCTGACTGGACACCACAGCTTAGCCTCGTCCACCCTA
AATGTACTCAGAACACTTAGAATTGCCACAGTTGGGCAGAATCATCTAACACAAACTCTATTTTATAATCGAGT
GTTGAATATATCATGTAATTTATTGAATATTGTACATTATGTTGAAATTGCAACCAATTCACACCATTGTAAAGT
CCAAAAATCAGAAGCTGAGGACTGTCTGTACATGACATTGAATCAGATGAATGGATTACTAGGGCCTGAGGGGTG
TCCGTTCTTTAGAAAAATGTAGAGTATATATCTTCAGGGCTGTGAATTCCATACTAGTTATCAATATTTTAAAG
ATCATTCTGTATATACATATTTTAAATTATGCAAGCAAACTAGGAGGAGAATGTGCAATTTTGAAGGGATACCTAA
TTTGCAATTCGGTTAGGGGATATTTTCAACCTCTTGCTTTTACTCTGATATGGGGTGTGTTTATGAACCTGTTA
ATGTTATTTAATCATGCAGATTCCAATCAGTGATTGCTCATTTACTGACAAAAGGGAAAATACGAAACACAG
AAAGGGAAAATAAAGTACTGACTTTTATAATGAAAAAAGGGGAAAAA

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FIGURE 1499

MAWPNVFQRGSLLSQFSHHHVVFLLTFFSYSLHASKRTFSNVKVSISEQWTPSAFNISVELPVEIWSSNHLFP
SAEKATLFLGTLDTIFLSYAVGLFISGIVGDRNLNRWVLSFGMCSSALVVVFEGALTEWLRFYNKWLYCCLWIV
NGLLQSTGWPCVVAVMGNWFGKAGRGVVFGLWSACASVGNILGACCLASSVLQYGYEYAFLVITASVQFAGGIVIFF
GLLVSPREEIGLSGIEAENFEEDSHRPLINGGENEDEYEPNYSIQDDSSVAQVKAISFYQACCLPGVIPYSLAYA
CLKLVNYSFFFWLPFYLSNNFGWKEAEADKLSIWYDVGGIIVFSVSDPGQARMDVGFLFHSHDKLYNCVYLAIN
SEGNILSRACKETGSHIEGVTGARETERTMSATSGPLGLRVCPNLGLSRSSSLILDQASLNTASHLRC

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FIGURE 1500

GTCAGGTGGCGTTTGCTGTGGCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTG
CCCTGGCCCCGGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCCGGGGCGCGGGCTGGGTGGCGGCGGG
CCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGGGTCCGCGCGGGGCGACCGCGAGCT
CGGGATACGCTCTTGAAGTCCGAGAAGACTTAACTGATGGTTCATATGATGATGTTCTAAATGCTGAACAAC
TCAGAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAA
CAATGCAGCCTTTTCAGTTAACCAAGCTATTATTCGTGAATTGGGTGGTATTCCAATTGTTGCAAACAAAATCAA
CCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAAT
CAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTTCTCTGAACCTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACCAGCACATGCTTCACAGTTACATTACAGACCT
GTTCCAGGTGTTACTTACTGGAATGGAAACACGAAGGTGCAAGTTTTGAACTGCTTTTGAATTTGCTGAAAA
TCCAGCCATGACAGAAGGACTTCTCCGTGCCAAGTGGATTATCATTCCCTTTCCCTTTATGACAGCCACGTAGC
AAAGGAGATTCTTCTCGAGTACTTACGCTATTTCAGAAATATAAAGAAGTGCCTCAAAATAGAAGGCCATTTAGC
TGTGCAGCCTACTTTCACTGAAGGTTTATTGTTTTCTGTTACATGGAGAAGAATGTGCCAGAAAATAAGAGC
TTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATCTGATTGGTCATATT
TTTCCAAAGAGTAATGCAGTCTGGATATAAATGTATTTCTGTCTTCCTTATAAGGGGATTCTCCAGCTGCTAA
ATTTAAACAGTAAATATCACATTTTGTCTTAACACAGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1501

MGGPRGAGWVAAGLLLGAGACYCIYRLTRGRRRGDRELGIRSSKSAEDLTDGSYDDVLNAEQQLKLLYLLESTED
PVIIERALITLGNNAAFSVNQAIIRELGGIPIVANKINHSNQSIIKEKALNALNNLSVNVENQIKIKIYISQVCED
VFSGLNSAVQLAGLTLLTNMTVTNDHQHMLHSYITDLFQVLLTGNGNTKVQVLKLLNLSENPAITEGLLRAQV
DSSFLSLYDSHVAKEILLRVLTLFQNIKNCLKIEGHLAVQPTFTEGSLFFLLHGEECAQKIRALVDHHDAAEVKEK
VVTIIPKI

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FIGURE 1502

GGCACGAGGCCCGAGGTAATTTGAGCAAAGGCCACAGTGAACCTCCGGCGTGGCTGAGGAAGGAGGAGGCACCCACA
GGCTGCTGGGAGGAGAGCATAAGGCTCAAAATGGAAAATCATAAATCCAATAATAAGGAAAACATAACAATTGTT
GATATATCCAGAAAAATTAACCAGCTTCCAGAAGCAGAAAGGAATCTACTTGAAAATGGATCGGTTTATGTTGGA
TTAAATGCTGCTCTTTTGTGGCCTCATAGCAAACAGTCTTTTTTCGACGCATCTTGAATGTGACAAAGGCTCGCATA
GCTGCTGGCTTACCAATGGCAGGGATACCTTTTCTTACAACAGACTTAACCTTACAGATGTTTTGTAAGTTTTCTT
TTGAATACAGGTGATTTGGATTGTGAAACCTGTACCATAACACGGAGTGGACTGACTGGTCTTGTTATTGGTGGT
CTATACCCTGTTTTCTTGGCTATACCTGTAAATGGTGGTCTAGCAGCCAGGTATCAATCAGCTCTGTTACCACAC
AAAGGGAACATCTTAAGTTACTGGATTAGAACTTCTAAGCCTGTCTTTAGAAAGATGTTATTTCTATTTTGCTC
CAGACTATGTTTTAGCATACTTGGGTCTGAACAATATAAACTACTTATAAAGGCCCTTCAGTTATCTGAACCT
GGCAAAGAAATTCAGTATTTTAAACAAATATGTAAACAAAAATAAAATGGTAAAAACAGAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1503

MENHKSNNKENITIVDISRKINQLPEAERNLLENGSVYVGLNAAALCGLIANSLFRRILNVTKARIAAGLPMAGIP
FLTDDLTYRCFVSFPLNTGDLDCECTITRSGLTGLVIGGLYPVFLAIPVNGGLAARYQSALLPHKGNILSYWIR
TSKPVFRKMLFPILLQTMFSAYLGSEQYKLLIKALQLSEPGKEIH

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FIGURE 1504

CTGCCAGCACTTAACTTTTCCCCCTACCCCTGCTCCTCCTCCACAGCCGTCCTTCTCTTTGCCCTCAGCCACTT
CCTTCCTTCGCCTCACCCCTCCCCAGTGCACTGAAGAAGGTAAACCGGGTCCAGACCCACGCGGCCAGTTCTCCG
GCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTAAACCTCTTAGTGGAGGAAATTCA
TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTCCGTGATGATAAATGTGC
CAACCTCTTTGAAGCATTGGTAGGAACCTTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCT
GCTTCTGCAAGGTGTTTCATGATGATGTTGACATTATATTACTGCAAGATTAAATGTGGTTTACATATCTTTATGTA
CTGCCATTTTTTGTTCCTGGTAAACTGGAATATAAAGTGAAAGAACAACATTTGAACATACTTAATGTATTTTT
ATAGAACTTTGTAAACGAAAGGAGATTTCATGTTTTAGAACTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATG
TATGATGCTATAAAATAAATCCIATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGC
GGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAAC
AAGCAAACGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAGTGTCAAATTTA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1505

CQHLTFPPTLLLLLSRLSLCLSHFLPSPHPPQCTEEGNRVQTHAAPVLRREGKPRREAAMNVDHEVNLLVEEIH
RLGSKNADGKLSVKFGVLFRRDDKCANLFEALVGTLKAAKRRKIVTYPGELLQGVHDDVDIILLQD

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FIGURE 1506A

CCTGCGGCTCCCCGGCTTTTCGGAGCCCGGGGGCGGCTGTGGCGCGGAGCCCGCGCCGGACTGCGCCTCTTT
GGACCTTGAGGGGAAACATGCGTTTGC SKWGGATCRWTTGAAATCTGAGKYTRGGATMCSMGSCCGCCYGCCTG
MYTCKKCCGMSSCGCGGGYTTTTTCSTATTTTTCCTTTTGCTTTTTTTCCTTTTCTCCCTCCGGGTCTCCTTTTT
GACTCCCTCCCCCTTTATGCTCGCCAGCCCTCCCTGCTGCTGAGAAGTGGGGGAGGGTCTCGGCCTCCAGGT
TCCCGCCCCACCGGGGCCCGGGCGAGCATGGGGGGCAAGCAGAGCACGGCGGCCCGCTCCCGGGGCCCTTCCCG
GGGTCTCCACCGATGACAGCGCGGTGCCGCCCGGGAGGGGCGCCCATTTCCGGGCACTACCGGACGGGCGGC
GGGGCCATGGGGCTGCGCAGCCGCTCGGTGAGTCTCGGTGGCAGGCATGGGCATGGACCCAGCACGGCCGGGGG
GTGCCCTTTGGCCTCTACACCCCGCCTCCCGGGGACCGGCGACTCCGAGAGGGCGCCCGGGCGGAGGGTCT
GCGTCCGACTCCACCTATGCCCATGGCAATGGTTACCAGGAGACGGGCGGCGGTACCATAGAGACGGGATGCTG
TACCTGGGCTCCCGAGCCTCGCTGGCGGATGCTTACCTCTGCACATCGACCCAGGTGGTTGAGCTCGCATAGT
GGTTTCAAGTGGCCCATTTGCTCCAAGTCTGTGGCTTCTGACGAGATGGAATGCATTTATAATGTGTTGAGC
AAACCTGCCTCTCTACAACGATGATGTGCTGACTAAAGACGCGGGTGAGTGTGTGATCTGCCTGGAGGAGCTG
CTGCAGGGGACACGATAGCCAGGCTGCCCTGCCCTGTGCATCTATCAAAAAGCTGCATAGACTCGTGGTTTGAA
GTGAACAGATCTTGTCCGGAACACCCCTGCGGACTGACCTGCGGGCTTGTCTGCTGACTCCTCTCAAAGGACAGA
GCGCCCTGTCTCCAGGGAGGAGGCTCACCGGACCCTGGGGCAGAGCTGAGCTTGGGACACCGGGAACAGGGC
ACCCCTTCTGCACTGACTTCCAGATCATGGTTCTCCCTTCCCTCCCTGAGGACACCAAATTTGATGAGCAAGTT
TGAGAGAAGAATGAATCAACTGCTATCCTTCCCTCACCCCTCAGCCAGGAGGAAAGGGCATTCTTTCTTTTCA
TCTTTGAAAGGCATTGTGGGTCTGTCTTTAAAGTGTTTACAAAAAATATATAAAAAAAGTCTAGTGTCTG
ACTGGTGTCTTCCCTCGTGATGTTTACAGCTGTGCTTTGCTGCCAGCCATAACCCACTCAGTGACAGACGAAC
ACAGCTAAGCCCTCGCTGCCAGCCTTCTGACGCGGGGCGAGCACAGGTCTCTTCCCTGCCCAACTGGCCCTC
TCCACCACCAACTTCTCTACTTTGGGTTTGTGTTGTTTTTCCCTCTATTTTTCTGGCTGGTTTTTGTCTTTT
CTCCCTTGAGACCCTAATATCTTGACTTCATTGCCAAAAACAACCCATTGAGAACTTTCTTCTACTGATCCC
ATCTCTTTTCCCTTCTTTCTCCTGTTCCGGTCAGTTCAGAGGATTTAACAATCAAGTGTCTGCAAAAAATG
CCTGAACATTATTCTTAGGCCCTCGTGGATTTTTTTTTTTTTCAGAAAACTTAAACAAAAAAGACTTACTAAGAAA
TATGTACAGTACCCCTGTTTTCAGGCACTATGTTTGAGAACATTTAGCCATTGATGTTACACGTGGCATCAG
CCCATGCAAGATAGGTTTCTGTATTTATATATATAAAAAAATAAAAAAAGCTTATAAAATGTTTAAAAAATGTTT
AAAGCTTGGGAGAAAAAGCTTTCTTCATTAGTCAAGGTGTTTIGATATGGTATTAAAAATGTCTAATAAAGATGGC
ACTGCGTGATTTTATTTTAAAGTGTATACAATCAAGAAATGGGGGCAAGGGGCTGCCCCCACTCCCTCA
CCTACCTCCTTAGCATTCTTCAGGCTGCTACTCGGGGCTCCAGGTGTGTGAATTGGTCTCAGATAGTCAGGCC
TGGGTGGAGGAGTGGCAAGTCARGCGTGCCTCTACAAGCTTCTAACCTCTTAAGCATCATGGAACCAAGTCAG
CCCTCTGTGGAGTCAATTGTGCCGACCTCTGAAAAGATCTGCAGGGGCCAARATGTTGCARCCACCSGAGGCTGC
ARGGWYTGTTGGTCTTCCAGGTGTGGGCCAGCCCCCTCTTYCAGCCTTTGCTCCCCATCCACGTTCCACT
CKCCCTGCCTGGTGKTTGCGTCTCAGTGCTTGAMTCAGGGCATGCTTCATTGAGGCCAGGAAGAGGCCCTGGT
TTGGGGCTGTGCCAGCTTCAGAGCCCTTGAACCAGAACCAACTGCTCAGGCTCACAAAAGTTGGCAAAATGCGGG
CTGGGCAGGCAGCTCGGGGAGGGAGCAGCAGTGCAGGCCTGGCCTGTGXTCCCGTGCCAGCGGGYCSCGGAG
CAGCATTCCAGAGCCTCTGCAGAGCCAGCGAAGGAAAGCTCTAGAGGGAGACGACTCCACCGCCTCTCTGCTCT
GACCCTTCTCAGGCCCGCCTGATGTGCTGGACCATCCCCCTGCTGCCACGGCCCTGGCTCCGCAGTCAACCTCC
ATCAGATGCTTCCAGAAGCACCTACTCTGTGCAAGGGCATTACAAACAGGCCAGTGGGCAACGTGAGCCAGGGC
CAGCGGAGAAACACTAAAGAAGACTTCGGTGGTTTCAGAGCCTGGGTCTCAGCGCGGGACCCGCTGCGGGTTGAAG
ACCTTKGGGGCTKTTGTGAGTYGGTGGCAGGAACGTGGGCTYTAGAMTGTGCATTGAGGCTCTCCTACTTGGCAG
AATGATCTTGGGGAAACGACTTCATCTGAACCTCAGATATTTACATGTGAAGCGGGGACAAAACCATGCAGCTC
AGAGGTCCCTGTGGGGGCTGGGGGAGCTGCCCTGCAGGTCTTGGCACATGCACAGCAGGCTCCCCATAGCTTTGT
CACCACAAAGGGCACTGTTCTATTACAGCACCTCTGCTTCTGCCTGGCAACTGTGTCTCCCTGTGCTATATTT
AATTCCACCAGCAAAGCTGKCGGAGGCAGGGCCAGCCTGAAAGGAGATCTCCTTGCTGACCCCTGGGACCTGG
GAAATGGAGGCTTCATGTGCCCGCTTGSSKYTTAAAGCCTGCTGGCTTTGGCAGTGCCATGGGTGAGCCGAGCA
GCTGTGAGGTGGGTGGGGCAGGGCTGTAGCCACGCCGGGTGCTATTCCAGGCTCTAGGGGCTGGTGTCTATCCCC
ACCCCAAGCAGCTTCCGTCTACCTGGCATGTGTCAGCCCTCTGCCGGCTGTGGTGTCTGAATTTGGACCCAGG
TTGCTGCTCTTGTGTGGGGGTGGGATTGGGGCTGTCTGTGTTTCCAGGTGGAGCTCATGTTTGTGATCCTCT

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FIGURE 1506B

ATCTGGACAGCTCTCCAGAATCCTGTGTTGCCCTGTTCTGCCTTTCTGGGATGGGAGAGAAGGTGAGGGAGCCG
GCGAGCCAGGTTCTACCTCTCTGCTAAGGGCCTAGCACGCTTTGATGAGGTTCTGGACGTGAGACCCTCACAA
AGACCAACCATTCCTCTAATAGCCATTTAACGGTACTGCAGTTCATGGGAAAATGCCTCATTCTTAGGAGATAG
ATGCTGGATTATATAGGTGAATGCCTTCAAGAAATGTGTAATTTAATTCCAAATAGTCCCCC AAAATACACAA
AGCAAATAAGGCCAAAATGTTTCATTGTTGAATCTGCAGTGGCTGGTATTTTCAGTGAACAGTGTACTGTTCTTTC
AACTTTTCTGTATGTTTGGAAATTTTTCTTAATAAAAGATTGTGGGAAATGGTCATTGCTGAGCGCCTCCTAGTT
GCCAGGCACTGGAGGGCGCATCAAAGAAGAGTCCTACCCAGGAGGGAGAGCGCAGCTGCTGCAGGATTCTCGCCT
GGAAGAGTGGGTGGCTGGCTGGCTGGCTGGCTGGAAAGGGGAGGGGCGAGAGGGCTGTCTCGGTGATGAGCACACGCGTG
CTGGGGTGGTTTGGGGAGAGGGCTGAGATTTGTCACCAGTGAGCCCTTGGCACGGTCTCTGCTCCCCACAGGGC
AGCACGGGACAGAAACGTCACGGAGGAGTAGCCTC

REPLACEMENT SHEET

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FIGURE 1507

MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHFGHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVPFGLYTPA
SRGTGDSERAPGGGGSASDSTYAHGNGYQETGGGHHRDGMPLYLGSRASLADALPLHIAPRWFSSHSGFKCPICK
SVASDEMEMHFIMCLSKPRLSYNDDVLTKDAGECVICLEELLQGDTIARLPCLCIYHKSCIDSWFEVNRSCPEHP
AD

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FIGURE 1508

ACGAGGATCCGGGTTCCAACCCAGGGGGAAAAATCGGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAGA
AGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCGATGGCACCTACTGTTTCCGTCTGC
ACAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCAATATTTCCGGGGACAAGCTGGTGT
CGCTGGGGACCTGCTTTGGAAAATTCATAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTTG
CACCTTATGCCAAGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTG
TGGTATTTTCATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAACGAAGCCATTCCAA
GGACAGACGGCTGTATGGAAAGCCGAGCTTTGTTTCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTTG
TCAACACTCTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTA
TTATATACAGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATC
AGAGGGGCTTCTTGTCTGAGAAATAGGTTCAAAATCATTGGAAACCAGGAACAAGAATAGCTTATTGTTATCTGT
GATAACACTGTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAA
TAAACCACATGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTG
GTGTGTGGTATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCA
TTCAGCTTTAATAAGGTTTCATTTCTTCTGTTTAAAAAGACACAAAACCTGAAAATCAGCTTTGGCCATCTACCT
GAGAATTAGAAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGGCTCGCGCCTGTAATC
CCAGCACTTTGGGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TGAGGCAGGAGAATGGCTTGAAGTGGGAAGCAGAGCTTGAGTGAAGCAAGATGGTGCCATTGCACTCCAGCCT
GGGCGTGACAGAGTGAGACTCCATCTGATTGTAAAGCATCTAGTACAGTGTCCAGTGCCTTGGAATGATAGGTA
TGGAATAAATGGTAATTATTTTATATTAT
AATTTGATTTTATTACCTTCTTTTTTACAAGCTGTTTTCTCAGTATTTTTCTTGATGGGATGACGCTAGGCTGG
AAAGTTTTTTTCATCACTATGATTTTATAAAACAATTTTTTCTATGAACCTTTACTTACTTGACTGGATTGGACT
AAAAGCACTGATCAGAGGCCACGACATAAAAAATTCAGTCCCTTTGTCTTCCCCGTGCCTCCCAAAGTTACTTTA
AGATCCTTAGAATATTTCTTTAAATATTTTATAGACAAAAATTTAAAGACTATCTGTATTGCAAAATTAACATA
TTTCTTTAATGAATATATTGCTTATTTTAAGTTCCAAAGGTGAAGTCTTTAAGAATAAAACATTACCAACTGCTG
CTTTTATATGTAAAAAACAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA

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FIGURE 1509

MRPLTEEETRVMFEEKIACYIGENQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFR LHVTALDYLAPYAKGFGVAAKSTQDCRKVDPMIAIVVFHQADIGEYVRHEETLT

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FIGURE 1510

AACAGATCTTCAATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACCACACACCAGGAACCTCTTTC
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC
AATGCCAGATGGGTAAAGCAAACATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAAACTGTATC
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCCT
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG
GAGATAGTAGCCTGGTGTGTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC
CGTTTTATAGGAGCAAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG
TGATGTACTATAAGAGTAAAGAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGAA
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCCAGACA
TTCTGTTCATCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC
TGGAAGCAGACATCTTCATAGGAGTGGTTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA
GGACAACCTGGAGCCCAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGAATCCGTTTTG
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAAGTTCGCAGTGACACTATCGATACTGTTTCTGTGCCCT
TATGTTTTTTCGGTATTTTGTAGCTGAACCTGGCAGCTATGAACATCAAAGTGAACTGGATGTTGTTTAACTTGAT
GTTGACCTTTTGGATTAAGGGGACTATCAGATTAAAGCAAATGTAATTTTAATTCAATGAAGATATCATTACCA
GGTTACTCTTGAGATTTTTCAACGGTGTAGAACTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA
ATCTCTCTGGTAGATTAACATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGCTCTCTCAAAATA
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCCTGCTCTC
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA
CCACAATCAGGGTAATAAACATACCTGTCATCTCCACAAGTTTCTCTCCTGCCCTTTGTTTTTTGCTTTTTGGTT
GCTGTTGAGTTTTTTGTTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG
TGCACGATATAGTATTGTTAATTCCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGCATAAC
TGAAGCTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCTTAGCAACCACCTTCTACCTGTTTCTATGA
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCTGTGACTGGCTTATTTCACTTAGCA
TAGTGAATAAGATTTCATCCATTTTGAAGCCAGGCATGGTGTGTGCATCTATAGTCCCTGCTATTTGAGAGGC
TGAGGTGGGAGGATCATTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCTGTCTTGAAGAC
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTTCAT
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTCTGTGTACAGTATTTTATTGTATGGATTACCATCCCCTGT
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTTCTGCAAAATATTCTGGTGACTTATCTTTGGCCATT
ATAAAGTGTGATAATAAAAAAAAAAAAAAAAAA

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FIGURE 1511

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYYCQMGKQTMGFFLLTYQDRSDNKLYRLQT
PQSPLVRPSMYDYYMDNYPITNAIVAVISYTGDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSS
LVFGIKPGDPRVLQKLDDGLPFIGAKLQYGDPPYSYLNLNTGESFVMMYKSKENCVVVDNIKVCSNDTGSCKFKC
VCITMRVPRNPTIGDKFASRHGQKILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH
GLCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTG
ARDRVNTQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA
QQKIQLYSV

[illegible]

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FIGURE 1513

MVFFTCNACGESVKKIQVEKHVSVCRNCECLSCIDCGKDFWGDDYKNHVKCISEDQKYGGKGYEGKTHKGD IKQQ
AWIQKISELIKRPNVSPKVRELLEQISAFDNVPRKKAKFQNWKMNSLKVHNESILDQVWNIFSEASNSEPVNKEQ
DQRPLHPVANPHAEISTKVPASKVKDAVEQQGEVKKNKRRERKEERQKKRKREKKELKLENHQENSRNQPKPKRKK
GQEADLEAGGEEVPEANGSAGKRSKKKQKQDSASEEEARVGAGKRKRHHSEVETDSKKKKMKLPEHPEGGEPEP
DEAPAKGKFNWKGTIKAILKQAPDNEITIKLRKKVLAQYYTVTDEHHRSEEELLVIFNKKISKNP TFKLLKDKV
KLVK

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FIGURE 1514

TCTCGCTCAGGCTCGGTTTTACCCCGGAGTCTATTGGAAGGGGGCTGCTACGTCAGCGCGTCTCAGCGTAAGACG
GCGCTATTCCGCTGTAACAGCTTCCGGCGGGTCCTGGATGTTGATGTCCTGCATCTAACGCGGTGTAACCCCGGA
AGCCGAGCGAGCTCCGGAGGAATTTAGTATCTGCTACGGTAACTTCATCAGCCCGCCAAGATGCGGATGCAAGC
GGCCAAGAGGGCGAACATTTCGACTTCCACCTGAAGTAAATCGGATATTGTATATAAGAAATTTGCCATACAAAT
CACAGCTGAAGAAATGTATGATATATTTGGGAAATATGGACCTATTCGTCAAATCAGAGTGGGGAACACACCTGA
AACTAGAGGAACAGCTTATGTGGTCTATGAGGACATCTTTGATGCCAAGAATGCATGTGATCACCTATCGGGATT
CAATGTTTGTAACAGATACCTTGTTGGTTTTGTACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAA
GAAGGAGGAACAGTTGAAGCTTCTCAAGGAGAAATATGGCATCAACACAGATCCACCAAAATTAATGTTTTCTAC
ATTTTCATTTGGACTAAATCCCACGAATGACAACCTACCACCTTTTTTCTTTTAAATTAATACTAAATATTGTG
ATTTCTTATTTGAGGTTCAAAATGACCTGCTTGAACTTTGATACATATTGGAATACATTATGTTAATAAACTTG
TAGCTTTTTGTGAAACAAAAAAAAAAGTCGACGCGGCCGCAATTTAGTAGTAGTAG

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FIGURE 1515

MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEMYDIFGKYGPIRQIRVGNTPETRGTAIVVYEDIFDAKNACD
HLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQLKLLKEYGINDDPPK

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FIGURE 1516A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCCTGAGGTGACAGCGCTGCAACTGAAATTCAGCAGCGGGAGAAGATGGACAAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCCTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGTCTGTTACTTCCAGGTGATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAAATACATAAGGACCCACCTGTAAGTGAAGGAAAGTTGAGTGATACAGACAACT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCTCACAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATTCTGCAAGCAGACTGCGCACAAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAATCA
CTCTGATTTCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAACT
ATCATCAGGATCCAAAAGTGCCTGAAGAAATTACAATAAACCTACAAAAAGTGATTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCACTGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTTCAGAAATCTTAAGTTACAATCTAAGCAAGACCGTGAGACAATAATG
AAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTACCATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTGAGAGAACAATTCAGTATTATGCCTAGTAATGAGATGGATCTACAATCTGG
ATTTTATATTACTTCTGTTTATATTGGTAAATAAAAGGAGCTTCTAAAGGTTGTGTACAACTACAAAAAAT
ATATTAAGATCCCATTTCAAGTGTCCTGAATGAGATTTTCATTGCTAGTGATACACACATTTAAAGCGGTTTG
GGTTATGGAAGAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTGACACCAATTAGAACACTCTGTATTAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAACACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTTCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTTCTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGTCAGAACGAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTT
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACATGAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTTGAACGAAGTCACATTTTGTAGTCTTTTCTATAAATGCTTGACAAGAAAGGAAATAATTTAACAG
AAGATAATCCAAATCTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCTGCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGACAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTTCAAAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTGGAGAAGTGGT
TTCTCTGTCATGTAATAAAGACCAACGGGAAGATATTCGAGAGCTCATCTTGAAACTTCATTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCCTTACCA
GCATTTGTGTTAGCCAGCTCAGAGAGAAGAAAATAACTTGCAAGTATTTTATAAAGTCAATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTTAAATTTTATAAATATTTTCATATTTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTGTAGATAATAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTCTGTCAAATTTGCTGACAGGTCACATCATATTGTAATTTCTATT
CTTTCAGCTCAAGCATGCAGTATGAATACTGTGTATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1516B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTCAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCTTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCAATTTGTTTCAGGGTAAAAATTGAAACAAAAATTTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTTCACTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCTCATAACTTTAACAAAGAAAACCTCAGTCCTA
TTTATTAATGGGTAGAAATTAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACTTCTAAT
GTTATCAGGAGTATTTTGAAGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTTTAAACAATAT
TATTTTAATCTGTTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTATATTATTAAATATATTTGTTGTTTGGATATTTTATATAAAGATGGCTAT
AATTACATATTTCAATCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTCTTAATGTTTTGTTTGTATGTTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTTAAATTCATTTTCTTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1517

MDKRKLGRPPSSSEIIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLOWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILTINVLGTELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSEGRSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKTKRRLRNNLPDSQYCTSLDKSTEQTKQEDDSTISTEFERPSSENYHQDPKLPPEEITTKPTKSDFT
KLSSLNSQELTILSNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENEINTIEKPILRGHNEGQSLISAEPV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLEPLITCESVQMSSELCPYNPVMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQKSSEFIFLELHNPVSQREELKLDIMTEISIIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYVCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAKPTYTFLOKQSSGCYLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQSQAAQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPPKMKRCPILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPVNFELPIHLEKWFPRHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1518

GCTCTGCACCCCTGCTGCTTCTGCTTTGAAGGCGGAGGCTCCATGTTGTCCCTCAGCGAGTGGCAGCAGCTGCC
TCAAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTGTTTTGGTTCAGAAAGATCAA
CATTCCCTTGAGCTAGATGAGAAAGCCTTGCCAGCATCCTCTTGAGGACCACATCCGAGATCTTGATGTGGTG
GTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAGTCCTTCATTCTGGATTTATGCTACGATACTTATATTCT
CAGAAGGAAAGTGGCCATTCAAATTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCTGGAGAGGGGGA
TCTGATCCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTT
GCAGTTGTTCTGATGGATACCCAGGGGGCATTGACAGCCAGTCAACTGTGAAAGACTGTGCTGCCATCTTTGCT
CTAAGCACTATGACTAGTTCTGTTTCAGATTTATAATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTG
CAGCTCTTCACAGAATACGGTCGTCTGGCAATGGATGAAATTTCCGAAAGCCTTTCAGACACTGATGTTTTTG
GTTAGAGATAGGAGTTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTA
CAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTTCGAAATCACATTCACTCATGTTTCTCCGATGTCACC
TGCTTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAGCCCTGACTTTGATGGGAAATTAAGATATTGCT
GGTGAATTCAAAGAGCAGTTACAGGCACTGATACCGTATGTATTAAACCCATCTAAGTTAATGAAAAGGAGATC
AATGGCTCAAAGGTCACCTGTCGGGGACTACTGGAGTATTTTAAGGCATATATTAATAATTTATCAAGGAGAAGAT
CTGCCCTCACCCCAAGTCCATGCTTCAGGCCACTGCTGAAGCCTACAACCTAGCAGCTGCAGCCTCTGCCAAGGAC
ATTTATTATAACAACATGGAAGAGGTTTGTGGGGGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAG
CACTGCGAATTCAAACAACCTGCTCTGGACCATTTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTTCAGCTTT
CGTTACCAGCAGGAGCTGGAGGAGGAAATCAAGGAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAAC
GTCTTCAGCACCTTCCGAACCCCTGCAGTGCTGTTACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACT
GGCTTCATAGGTCTTGAGGTTGTAGCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACC
TGGGGCTACATCAGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTG
GAGCAGGCTTCTTCTCATATCGGTAATTCCTCAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATG
GATAAAAAAGCTCAATAGCATCTTAACGTGAAGATCAAACAAGAACAACAAGCCCTACTGATTTCTGGGTTT
CTGCCACGGCCACAGGTTTCATATCCAGAGGAATGGCAGATCTGAGACGATCCAGGAAGAGCTAAAAACATGGCCCT
GTAATAAATGAGCAGACCTCTATAAAAGAAAAA

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FIGURE 1519

ALHPCCFCFEGGGSMLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLVV
VVSVAGAFRKGSFILD FMLRYLYSQKESGHSNWLGDPEEPLTGFSWRGSDPETTGIQIWSEVFTVEKPGGKKV
AVVLMDTQGAFDSQSTVKDCAAIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFRKPFQTLMFL
VRDRSFPEYSYGLQGGMAFLDKRLQVKEHQHEEIQNVNRNIHSCFSDVTCFLLPHPGQLQVATSPDFDGKLDIA
GEFKEQLQALIPYVLNPSKLMEKEINGSKVTCTGLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAASAKD
IYYNNMEEVCGGEKPYPSPDILEEKHCEFKQLALDHFKKTKKMGGKDFSFRYQQELEEIEKELYENFCKHNGSKN
VFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSGQYRELGGAIIDFGAAYVL
EQASSHIGNSTQATVRDAVVGRPSMDKKAQ

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FIGURE 1520

GGCACGAGGGCCATGACGAGCCGGTCCGGAAGAAGAGGTAGGGCGCCGCCGTGACAGATTAGTCCTAAAGGGAAC
GGGGTTGTTAGTTCAATTGGCTACCGGAAAAAACAGGCTGGGCTGGGCGCCGCCATGACAACCGATACCGGAAA
AGGCGGGTCGTTCCCCCGGACAGCCCTACGCCGGCAAAGGTCTCGAGATGCAGGCGGCCCTAGAGGTCACCGCT
CGCTACTGTGGCCGGGAGCTGGAGCAGTATGGCCAGTGTGTGGCGGCCAAGCCGGAATCCTGGCAGCGGACTGT
CACTACCTTAAAGATGAGCATTGCCCAGTGCACATCCTCCCACCCAATCATCCGCCAGATCCGCCAGGCCTGTGCT
CAGCCTTTTGAGGCCTTCGAGGAGTGTCTTCGACAGAACGAGGCAGCTGTGGGCAACTGTGCAGAGCATATGCGC
CGCTTCCTGCAGTGCCTGAGCAGGTGCAGCCGCCACGCTCACCTGCAACTGTGGAGGCACAGCCACTTCCTGCC
TCCTGAGGACTCCTCTGACGGCAGGAAAACTGGACATGAATGACTGCCCCCGCCCTCCCCTGCAGAGTGGCC
AGATGGAGTCCTGAGCCCTGGACATGGGCCCGGCTTTCCTGGATATCAGGACTTCCAATAAATAAAGACTCTGTA
TACTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1521

MQAALEVTARYCGRELEQYGQCVAAPESWORDCHYLKMSIAQCTSSHPIIRQIRQACAQPFEAFEECLRQNEAA
VGNCAEHMRRFLQCAEQVQPPRSPATVEAQPLPAS

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FIGURE 1522

ATTGCTGGCCTAGGTGAACTGACGGTCTCCATTAGAAACATGGCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTTCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTGCTAAGAGTACACCAAATGTGACATCCTTTACCAATATAGATTACTTCATACCACATTGTC
AAGGAAAGGACTAGAAGAATTTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAAACTGGAGCAGCATG
GACCTGTCAGCACTAAGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAA
CATGCTTCTAACCTTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTGGAGAATCATCTGGCACAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAGATACAATAGGAAACGATTCTTGCCTTGCCTTATGTGGACCAITTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAATTTAGAGAGAAAGAAAGCAAAAATTTCTTT
AAAAAGTTTTCCACATCTTGCTGAAGCCAAAAAGTCAAGTCTTGCTTAAGATGTCTGAACTATTAAATTTACCAT
TTTGTTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAGAAATTTCTGTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACTTTATAAATTTCTGACATTTAAGCAGGCTTTAAATGT
CACCTGCTACCTTAGAGTGTGAAGGTGATGGTAAGTCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTAAATCTGTAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAATGCTTGTAATAAGAATAAGTGCAATTTCAAGGAAAGCACAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAAATTGAAATATGCAAAAATGTATAACATTCTAC
AAAAGATGGTCATTCTTTCTCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTTCTCAAGGGCATTCTTTCTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCTTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTTCCAGTTTG
CTGGAGATCCTTCACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTCACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAACTGCAGTTTTGCAAAGGAAGAAGGCAGGGATGTGTAGTGTTCAAACATTAACTCTGTCAAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGGAAGTATCCCACTTCAACCATCCCATTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCTTGTTTGCTT
TATCGCCATCTATTTCCATTAATGTGCTTCCGTCTCTCTTTCTACCACCATAACCAATAGCTGTAGGAAAAATCCA
CCTTGGGGCAGTCTCACCAGCATAACCAGCTCTCAGATATAGGATCCAATGTCAAAAACAAGGGCTCCAACCT
CATCTCCCCGTACCACGCCGCCGCTCATGGCTGTGCCGGCGGACTCCTACCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCTGACTCCCTTAACCTTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

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FIGURE 1523

MAATSLVGICRRASAFILKAACSLVNPKDAAHSGCRSSLSLLPKSTPNVTSFHQYRLHHTLSRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAKRQLPMPSPERLDKVVDSDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKRFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

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FIGURE 1524

CTTGGGGTGGGGACCGGGTGAGGGGCTGACGGCAGAGTCGGTCCAGAACTGCCCCGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGTCTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGAAGTCTGAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAGCATAAGAAGGGAAGCTGTTTTGGGGTGIGGGGCTCCCCAGCCTCCCTCAAGGAAGA
CCACACTGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAGAAGGAGAAAGGAAAAA
CCTAGTTTCACTCCTCCCTTCTTCCATGCTCTCCTCAGGGTCTGCGATTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACAACCAAGCCCCCAACTGGACTGGACTTCAGACCCCTCCTGCAGCAACTCCCTCCGAGGACATTGATGAGC
GCTACTGCCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGATACGGAGTGTTCAGCCCCGGGAGGGGAACAGCGCTGCTGGCACCAGCCTTGCTTTGCTGCTG
AGGCTGTGGCCAGGCGCTGATAAACCTCATCTACTTCTACCATGATGGAACAACCTCTACTGCGGCCGTCATCATG
CAGAGTTGCTGCGCCCGCGCTGCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCCTTCTGTTGCCAGGACTGCGCCGGGCTCTGGGCGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCTGCTGCCCCAGCTGCTTCGAGAACCCTACTCGGATGCAGGCTCGAGCTGGGCGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCACCGCACCCCCAGACCCCAAGCCTCGGGGCGCGAGCTCTACCGCG
CATCCCTGGCGGAGCGTTCCAAAGGGCGCCCCGACCCCCAGCCCGCGCGGTCGGGGTTCGGGCGCGGAGCTCC
CTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGAGGCGGGGACCCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGGCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTACCCCCACTAGCTGCGGTGTAGTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGCGCCGGAACAGGGGAGACTGGACTCGACCGAACTGAAGGAAGGGAC
CAAACCTCGGTGAACTCTGCAACCCCTCTCCCGAACACTCCTTGCTGCTGCCGGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCCAGCAGGAGAACCAGCCTGGGGACAAAGCGGAGGACCCAAAGGGCAGGAG
CAATGCCGCTGGAGACTATTCTGATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTCTTAGGCGAGCGCCTTCCCCAGTCTTGAAGACCCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGAGAACAAAGGCTAGCCTCCCCCTAACAACTCTAGACTGAGACGCAGTCAGGCGCACGCCCCGAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCCCTTCACTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCTGCTGAGATAGCCCCCTACCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGAGCAGGGGACCGTAGAACCGGGCGCGCTCCTCCCCTCCTAGAGTTCTGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTGCGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCGGATACGGTTCTCCAGCGAGGCCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGTGAGCGCTGCTGGCTCGGCTAATGAACTCCCGAAATACCGGACAACTGGG
AGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGAGGAACTTGATACTAAATTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAACCTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTGCTTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCAAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTGATGAG
GCATTTTCTTCCCTTCCCTGCCTAGTTTCTTTTGTTCCTTGAGTCCACGCAGAAATTCATTCTCTGGTTCAGC
AGACAGGCTTAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTGTCTTGTCTGAGAAATAACAGTGCTGTTTTAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAA

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FIGURE 1525

MSPQGPAVLSLGSCLDTNQAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACQALINLIYFYHDGQLYCGRHHAE LLRPRCP
ACDQLIFSWRCTEAEQQRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAF LGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLP PRRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPPLAAV

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FIGURE 1526

GGGCCGAGCCATGCAGGCGTCGCGCGTGGACTACATCGCTCCCTGGTGGGTCGTGTGGCTGCACAGCGTCCCGCA
CGTCGGCCTGCGCCTGCAGCCCGTGAACAGCACCTTCAGCCCCGGCGACGAGAGTTACCAGGAGTCGCTGCTGTT
CCTGGGGCTGGTGGCCGCGCTGCTGCTGGGCTGAACCTCATCTTCCTTGTGGCTTACCTGGTCTGTGCATGCCA
CTGCCGGCGGGACGATGCGGTGCAGACCAAGCAGCACCCTCCTGCTGCATCACCTGGACGGCCGTGGTGGCCGG
GCTCATCTGCTGTGCTGCGGTGGGCGTTGGTTTTCTATGAAACAGCGAGACCAACGATGGGGCGTACCAGCTGAT
GTACTCCTTGGACGATGCCAACCACACCTTCTCTGGGATCGATGCTCTGGTTTTCCGGAATACCCAGAAGATGAA
GGTGGACCTAGAGCAGCACCTGGCCCGGCTCAGTGAGATCTTTGCTGCCCGGGGCGATTACCTGCAGACCCTGAA
GTTATACAGCAGATGGCGGGCAGCATTGTTGTTTCACTCTCAGGACTGCCCGTGTGGAGGGAGGTACCATGGA
GCTGACCAAGCTATCCGACCAGACTGGCTACGTGGAGTACTACAGGTGGCTCTCCTACCTCCTGCTCTTTATCCT
GGACCTGGTCTATCTGCCTCATTGCTGCTGGGACTGGCCAAGCGCTCCAAGTGTCTCCTGGCCTCGATGCTGTG
CTGTGGGGCACTGAGCCTGCTCCTCAGTTGGGCATCCCTGGCCGCTGATGGCTCTGCGGCAGTGGCCACCAGTGA
CTTCTGTGTGGCTCCTGACACCTTCATCCTGAACGTCACGGAGGGCCAGATCAGCACAGAGGTGACTCGCTACTA
CCTGTATTGCAGCCAGAGTGAAGCAGCCCCCTTCCAGCAGACCCTGACCACCTTCCAGCGCGCACTTACCACCAT
GCAGATCCAGSTCGCGGGGCTGCTGCAGTTTGCCGTGCCCTCTTCTCCACTGCAGAGGAAGACCTGCTTGCAAT
CCAGCTCCTGCTGAACTCCTCAGAGTCCAGCCTTACCAGCTGACCGCCATGGTGGACTGCCGAGGGCTGCACAA
GGATTATCTGGACGCTCTTGTGCTGGCATCTGCTACGACGGCCTCCAGGGCTGCTGTACCTTGGCCTCTTCTCCTT
CCTGGCCGCCCTCGCCTTCTCCACCATGATCTGTGCAGGGCCAAGGGCTGGAAGCACTTACCACCAGAAACAG
AGACTACGATGACATTGATGATGATGACCCCTTTAACCCCAAGCCTGGCGCATGGCGGCTCACAGTCCCCGAG
GGGACAGCTTCACAGCTTCTGCAGTACAGCAGTGGCTGGGAAGTCAGACCAGCCTGCAGCCCCGGCCAGAC
CATCTCCAACGCCCTGTCTCCGAGTACATGAACCAAGCCATGCTCTTTGGTAGGAACCCACGCTACGAGAACGT
GCCACTAATCGGGAGAGCCTCCCTCCGCCTACGTACTCTCCAGCATGAGAGCCACCTACCTGTCTGTGGCGGA
TGACACCTGAGGCACTACGGGAATCAGTTTCCAGCTTAACAGACTTTTCGGGGGTTCCCTGCTCCTTTTCCGTT
CTGGTTTTTAATTAGTGCAAATACAAGCTGCGTTTTCTTAATAGAAACCAAGGCATCTGGAGCCCGAGAGCCCT
CCTGCTGGGCAGAGGAGCAGCTGGGATTCCCGACCAAGCCCGAGGGGTGCAGAAGACTACCACGCGGGCCAG
CCTCTCTCTTTTGGCCGTGCTCTCCACACCAGAAATGCCCCAGGTGCTTGGCTGCCTCAGAGGTACCATCCCTGA
GCTGGCTGCCTGGCCCTGCTCACCCCTACGCCTCGCCCTTGCCAGGAGGGGAGTGGCAGTGAGGAGGGGGCCAGG
TCAGGCACCACCATCAAGAGAGCTGTGTGTTCTCTCTGGTCCCAACGATGACTCTGCCTCTTGTGAGCCACG
CAAGAGCCAGACGACCCCTCTGTCTCGTTCCCTGTCTCGTTCCCTGCAGGTAACATGAGAAGGGCTGATCAG
GAGATGCTCTTTAAGAAGTTCGCACCCCTGCTGACACCAGAACAAGCCAAATCAGAGTTCAGGGCCAGACAGGC
TCTTCTGGGCCACAGAGGGGAGGCATCAGGAAAGCTCTGCAGTGGGGGGCTGGTGGCTCCGGGGCTGGGGGATC
ACAGGCTGGTGAACCCCGGTGGGAACAGAGGTGAAAGCCTGCCACATTCCGCTGTCTCCCTAACCTCCATTGC
CTCGCCTCTATTCCAGAATCAATGCTGCAGAATGTGTTAGCTGCAGATAGGCATGGTCTCAGGTATGAACAGACA
CTTTGAAACGACTTTTAGGTCTTTCTTTCTCCAGTGTTTTAAACATGTTGATTATCCAAAGAATTGAACTCCTA
GCACATCCAGTTTTTACAACAGATTTGCAGCTCATTCTTACCCTGGTTAGGTCACTACTTTTGCAGATTTTGT
GGCACTGATCTGGAGATCTGCAGATCTGGAGGAGACGGGAAGGAGTCGATTCTTAAATAAGGATCAGTGAGGCAT
CCTGTCCCAAGCTACTGTTTGGTGGGGATCTGGGTTTCTCACCACAGAGGGAGGATCTTTAAGAGGAGAAAA
AAGCCAAGAGGGAAAGCCAGAGTTCCCTGTTCTAGGGGACTAGCCAAATGCCTACATCAGCTGTCCCTCCCTGT
TGTCTCCAAGTAAGTTTGCCAGAAAAGGTTTTAGCAAAGTGCTACAACCTGTGTCTTTATAGGAGGATAGGCCTCT
GCCCTGCCCCACCCCAACCTGTCCCCACCCAGTGTCCAGGCCACAGGAGCTTATTGGCCAGGAGGGAATAA
TGTCCCCAATACTGCCTGTTGAGGGACCAGAGTTGGGGTCTTTGGTGCTTCCAACCTCCTGCCAACCTGGAGTT
CACAAACACCAGAGCCCCACGGCCTCGCACACTGAAGCAGGGGCGTGGGTGACTCGGTGCTTCTGTTTTGGAAGA
ACCACCTGTCTATCAAAACATGGACAGCAGGGTGTCTCAGCTCCCAGCGAAGCCTCCACAACAGAATGGGGCCAC
AGGGCAGCCGGGACTCCCTGTCTCACCTACATTAACCCATGCATACTGTATGCCATAAACTCACTTTGGTATATC
CGCGTCACATGCAGAGAGGAACCTGCGCAGCTCAAAGTGTGCTTCTTAAAGTTTCATTATTGGCAACTAGAGGG
TTGTTTTTAATGCATGGAACTAAACAGATTCTCGGGGAGTTCTGAAGGAACAGGTGGGCAACCTTTGCTT
ATATACATGCGGCCTCACCTGGAAGAGAAATAAACCACTTGTACT

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FIGURE 1527

MQASRVDYIAPWWVVWLHSVPHVGLRLQPVNSTFSPGDESYQESLLFLGLVAAVCLGLNLIFLVAYLVCACHCRR
DDAVQTKQHHSCCITWTAVVAGLICCAAVGVGFYGNSETNDGAYQLMYSLDDANHTFSGIDALVSGTTQMKVVDL
EQHLARLSEIFAARGDYLQTLKFIQQMAGSIVVQLSGLPVWREVTMELTKLSDQTGYVEYYRWLSYLLLFILDLV
ICLIACLGLAKRSKCLLASMLCCGALSLLLSWASLAADGSAAVATSDFCVAPDTFILNVTEGQISTEVTRYLYC
SQSGSSPFQQTLTTFQRALTTMQIQVAGLLQFAVPLFSTAEEDLLAIQLLLNSSESSLHQLTAMVDCRGLHKDYL
DALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTRNRDYDDIDDDPFNPQAWRMAAHSPPRGQL
HSFCSYSSGLGSQTSLQPPAQTISNAPVSEYMNQAMLFGRNPRYENVPLIGRASPPPTYSPSMRATYLSVADEHL
RHYGNQFPA

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FIGURE 1528

ATGGATGAAGAACCTGAAAGA~~ACTAAGCGATGGGAAGGAGGCTATGAAAGA~~ACATGGGAGATTCTTAAAGAAGAT
GAATCTGGATCACTTAAAGCTACAATAGAAGACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCAT
GGACAAGTTGACTTGAATGATGCGCCACCTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGAT
TTAAAGCCTAATAGACTGACGTGTACTTTAAAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCT
ATTAGTCAGATTGGAATAATTGTAACTAAGAGTAAAGAGCTGAAAAATTGACTGAACTTTCAGGAAACCCAAGA
AAACATATAACGTCCTTTGAAGAAAGCTGTGGATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCTAAGC
ATAGCTATGCAGACTCTAAAACACATGCCTGGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACA
ACTTGCGATCCATCTAATATTTATGATCTAATCAAGACCCTAAAGGCAGCTAAAATTAGAGTATCTGTTATTGGA
TTGTCTGCAGAAGTTGCGGTTTGCACTGTACTTGCTCGTGAAACTGGTGGCACGTACCATGTTATTTTAGATGAA
AGCCATTACAAAGAGTTGCTCACACATCATGTTAGTCCTCCTCTGCTAGCTCAAGTTCTGAATGCTCACTTATT
CGTATGGGATTTTCCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGAGGCTATTTCTGCCACAGTGTGCGGCAAAGTACTGTGAG
CTACCTGTTGAATGTAAAATCTGTGGTCTTACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTG
TTTCCTTTGGATGCTTTTCAAGAAATCCCCTAGAAGAATATAATGGAGAAAGATTTTGTATGGATGTCAGGGG
GAATTGAAAGACCAACATGTTTATGTTTGTGCTGTGTGCCAAAATGTTTTCTGTGTGGACTGTGATGTTTTTGT
CATGATTCTCTACACTGTTGCCCTGGCTGTATTCATAAGATTCCAGCTCCTTCAGGTGTTTGA

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FIGURE 1529

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVEHHGQVRLGMMRHLYVVVDGSRTMEDQD
LKP NRLTCTLKLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVDMTCHGEPSLYNSLS
IAMQTLKHMPGHTSREVLIIFSSLTTCDP SNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDE
SHYKELLTHHVSPPPASSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCE
LPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVVYCAVCQNVFCVDCDV FV
HDSLHCCPGCIHKIPAPSGV

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FIGURE 1530

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FIGURE 1531

MQGTWLPPSFLAVCDTEEVSLFLELCFKIHVTCKAVLICDYGPMELGQSLWEAEGKDPGHFR

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FIGURE 1532

CCCTTTAAAGGGTGACTCGTCCCACCTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCCATGAAGTTTCGTCCCCTGCTGCTGGTGACCTTGTCTGCCTGGGGACTTTGGGTGAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCAAGGCCACAGTGAACTCACAGAAGCAACACAGCTGGGAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAAACCTTCCAGGCCCTGTGCCCTTTCTCATCAGCTTCTTCCGAGGGTGA

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTCTAATCAGATGCAACGGCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGAAAAGAAACCTTCCTTCTGAGTTTGCAGAGTTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATAACAACCTACTTATTATCTGTAGAAGTTTGTCTTGTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTTCATGAATTTCCAGTGTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAAGAA
TGATTTTCAGAAAT

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FIGURE 1533

MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCTMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFADPKPYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKAWHCWKPFQALCAFLISFFRG

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FIGURE 1534

ATGGCACAGCACGGGGCGATGGGCGCGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCCTGGGT
CAGCGCCCCACCGGGGGTCCCGGGTGC GGCCCTGGGCGCCTCCTGCTTGGGACGGGAACGGACGCGCGCTGCTGC
CGGGTTCACACGACGCGCTGCTGCCGCGATTACCGGGCGAGGAGTGCTGTTCCGAGTGGGACTGCATGTGTGTC
CAGCCTGAATTCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCCTTGTCCTCCAGGCCAGGGGGTA
CAGTCCCAGGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTCGGGGACCTTCTCCGGGGGCCACGAA
GGCCACTGCAAACCTTGACAGACTGCACCCAGTTCGGGTTTCTCACTGTGTTCCCTGGGAACAAGACCCACAAC
GCTGTGTGCGTCCCAGGGTCCCCGCCGCGAGAGCCGCTTGGGTGGCTGACCGTCGTCCTCCTGGCCGTGGCCGCC
TGCGTCCCTCCTGACCTCGGCCCAGCTTGACTGCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGA
GAGACCCAGCTGCTGCTGGAGGTGCCGCCGTCCGACCGAAGACGCCAGAAGCTGCCAGTTCCTCCGAGGAAGAGCGG
GGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGGTTGA

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FIGURE 1535

MAQHGAAMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCV
QPEFHCGDPCCTTCRHHPCPPGQGVQSQKFSFGFQCIDCASGTFSGGHEGHCKPWT DCTQFGFLTVPGNKTHN
AVCVPGSPPAEPLGWLTVVLLAVAACVLLLTSAQLGLHIWQLRSQCMWPRETQLLLEVPPSTEDARSCQFPEER
GERSAEKGR LGDLWV

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FIGURE 1536

GGCACGAGGGACCTGAAGCTGGGGAAACATGGTGTCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGC
CTCGGGAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGAC
GTGCTCAGCGGCCGCGGTACCGTGGCAAGCCCAAGTACATGTGGGCCCTGGGCGTGGTGTCTTACCATTGCTG
TATGGCCAGTTCCCTTCTACGACAGCATCCCGCAGGAGCTCTCCGCAAGATCAAGGCTGCCGAGTATACCATT
CCTGAGGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCCCTGACCCCCAGCAGCGC
CTGGCCGCCGCCGACGTCTGGAGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCATCTCTGAGTGGG
CCTTTGCAAGTGGTTCTGACATTGATGACCAATGAGCAATGCGGATAGCTCCAGCAGGCGAAGGTGACGGAG
GAGTGTCTCCAGTACGAGTTTGAAGTACATGCGTCAGCAGCTGCTGCTGGCCGAGGAGAAGAGTCCATCCAT
GACGCCCCGAGCTGGGTACCAAGCGGCAGTTCGGCAGCGCACACCAGGTGCGACGGCTGGGCCACGACGCACAG
CCCATGACCTCCTTGGACACGGCCATCCTGGCGCAGCGCTACCTGCGGAAATACAGCCCTCAGCCGGGGCCACCA
GCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGCGTGGCTGTGAGGGCTGGGCCCTGTAGTGTGGACTCTCC
CGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGCCAGGTACACGTGGGGTACAGCAGAGGTACCACGAAGC
TACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAATCTGAGAAGCCTAGATAACTAATCTGCTTTTAAATCA
CGATGTTTTAATCTACCTCTGTCTCTTAAACATGCTGTCTCTGGACTGAGCAAGAGGGAGGAGGGAGCCTGCTC
ACCCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACCTGGGGCGTGCTCCCCACAGTCCAAATAAGCTGAA
AGTGCAGCTCGCTGCGAGGCCCCAGAGCGAGCTTCCCCCTCTCCCTGCTCTCCAGGCCCCCTGCCACAGCCTCTTT
CCGTCCCTCTCTTTCTGATCCAGGCCCCCTCAGTCCAAGCTTTGGAAAACCTTCACCTCATCTTAAACCGAATCA
AATATATTTATTTTTTACCATAACCAACTTCTCTCCCATCTCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCC
CAGCCTGGCTGGACAGCAAGGAATCCACAGCCACACGTGAGCTCCCTCCTCAGCCCCAGGAGGGAAGCCCTC
CTGCCAGTCCCTGTCCCTTTAGCCCCACAGTCCCTCTCTGCTGCCGGTATGGGAGGCCCTTCTAGACCTGGC
TCTTTCTCTCCCGTCTCAGTGGCTTCTCTGAGGTGCTGTACACGCGCTTAACCTGTTCCCTTCTCTATCCTTCC
CCGTGGTACTGAGCTCAGTGGACTCCAGTGCAGAGGGGCCATGGGTGGGCTGCAGGCCCTGGCCGTGAGCGG
GGGTGCGCTGCACGCTCCCTAGCCTACTCTTGTGTTTAGGGGATGGTGGGAACATATCCAGTGCCTTGCCTC
ATAATAGATGTGGTGACTCTCCCGTAGACCCTAGCAAGGGTCTCCATGGTGGTGAGGACTCAGGAGAATTGT
AGGGATTGGGGGACCCTGCCTGCCTGGCTTGAGAACAGCCCTGCTGCCCTTTGAGCCGAGATTTGAAGTGGAT
GCCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAATGCCCCCTCCCTTGCCTTACTGGACTTGGCCCTGCCTGA
TGCCAAGCAAAGACCCTTCCCCAGAGGCCTACCCCCATATGTCTCAGAGAGGCTGAGTGTCCCTCCAGGCAG
TCATGGGCCCTGAGGCCCTCCTGCCTGGCCCTGCTCCCAGTGGGGAGGTGACTGTGTTTCCAGAGTGTGAGC
CGCTCTCTCCCCCTAAAAAGCTGACTCACTGTGAGTGACCTTGGGCAAGTCCCAAACCTCCTTGTGCCTCAGT
TTCCCCATCTGGAAAAAATGGGGCCACCTCTTGCCAGCAGTAGCAGGGCTGCCACGCCCCCTTCTCCCCATGCC
CCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGGGCCTGTGGGAGCCTACTGGAGCCAGCACTTACTC
CCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGCGCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGG
GATGCCCTCTTTTCTATATTTATTTTATAGAAAGTCTCCTGCGGGAGCGGAAATGCAGTCCGCGCTAGGGCTCCC
AGCCCTTGACTGTCTCTCTGTGAGGGCCTGAAGCTGGGGCAGGGCCCGTGCAGCGGAGCCCCCTCTCAGCAGCC
CACCGGTCCCTCCAGGCTGCTGCCCCGTGCGTGGTCTTTCTCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCA
AAGCCCTGTGAGACAGACTGGGCCCTTCCAAGGTCAAGCCATGTGTCTGATGACATTCTGGTGAAGCAAAGGAG
AGGAGGATGGGTGAGCCCTCACTGGGTGTACACACTGAGAGAAGTCTATTGTAAAGAAACGGAAAAAGTCACA
AAAAAGTTTGTATAAAGACATATTTTTGTACTACATGGGGACTCTTCTGCTGTGTCAGCAATAAACTTCTGTAT
CTGGAAAAA

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FIGURE 1537

MVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFMTLYGQFFFYDS
IPQELFRKIKAAEYTIPEdGRVSENTVCLIRKLLVLDPQORLAAADVLEALSATIASWQSLSSLSGPLQVVPDID
DQMSNADSSQAKVTEECsQYEFENYMRQQLLAEKSSIHDARSWVPKROFGSAPPVRRLGHDAQPMTSLDTAI
LAQRYLRK

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FIGURE 1538

TCCTTTGGTGCCTTGTGACCAGGGCCCTGATGGTTTCATTAGATGGAGCCTTCGAGTCTTAGGGAGTTGCCGCAGG
GTCCCCACAGCGGCTCCCGACGGTTGTGAACCAGCATCCATCCTCCACGGATTCCGGCAACCCGCTGGCCCTGG
ACGTGTCTCAACTGGCCCGCGTGAGGGGCCGCCCCGAAATGACGCGCTGCCCCGCTGGCCAAGCGGAAGTGGAG
ATGGCGGAGCTGTACGTGAAGCCGGGCAACAAGGAACGCGGCTGGAAACGACCCGCCGAGTTCTCATACGGGCTG
CAGACCCAGGCCGGCGGACCCAGGCGCTCGCTGCTTACCAAGAGGGTAGCCGCACCCAGGATGGATCCCCCAGA
GTCCCCGCATCAGAGACTTCTCCTGGGCCTCCCCAATGGGGCCTCCACCTCCTTCAAGTAAGGCTCCCAGGTCC
CCACCTGTGGGGAGTGGTCCTGCCTCTGGCGTGGAGCCCAAGTTTCCAGTCGAGTCTGAGGCTCGACTGATG
GAGGATGTGCTGAGACCTTTGGAACAGGCATTGGAAGACTGCCGTGGCCACACAAGGAAGCAGGTATGTGATGAC
ATCAGCCGACGCCTGGCACTGCTGCAGGAACAGTGGGCTGGAGGAAAGTTGTCAATACCTGTAAAGAAGAGAATG
GCTCTACTGGTGCAAGAGCTTTCAAGCCACCGGTGGGACGCAGCAGATGACATCCACCGCTCCCTCATGGTTGAC
CATGTGACTGAGGTCAGTCAGTGGATGGTAGGAGTTAAAAGATTAATTGCAGAAAAGAGGAGTCTGTTTTCAGAG
GAGGCAGCCAATGAAGAGAAATCTGCAGCCACAGCTGAGAAGAACCATAACCAGGCTTCCAGCAGGCTTCA
TAATCCCTCGGTTCCCCAGACT

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FIGURE 1539

MTRCPAGQAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQAGGPRRSLLTKRVAAPQDGSPRVPASETSPGPPPM
GPPPPSSKAPRSPPVGS GPASGVEPTSFPVESEARLMEDVLRPLEQALED CRGHTRKQVCD DISRLALLQEQWA
GGKLSIPVKKRMALLVQELSSHRWDAADDIHRSLMVDHVTEVSQWMVGKRLIAEKRSLFSEEAANEEKSAATAE
KNHTIPGFQQAS

CAACTCATGGCGGCGGCGGCGGCGGCAGCTGCTTGGGCGCGGTGCGGTGGTGACTGAGCTACGAGCCTGGCG
GCGGGTGTGCGCCGAGCCCCGGCCCGGCCCGCCCTCGCGTGCCTCCCAGGCTCCGCAACCCTGATGCTGCGCGG
GTGCTGAGCCCGCTTCGGCCGGGACGATCGTGAAGTATTTCCTGGGCCAGAGCGTGCTCCGGAGTTCTTGGGACC
AAGTGTTCGCCGCTTCTGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACC
GGGAGGTGACCCCTGACCAGAACTGCTGTCCCGCGACTCCTGACCAAGACCAACAGGATGCCACGCTGGGCCG
AGCGACTATTTCTGCCAATGTTGCTCACTCGGTGTACGTCTTGGAGGACTCTATTGTGGACCCACAGAATCAGA
CCATGACTACCTTCACTTGAACATCAACCACGCCCGCGTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGA
ACTCTGACAACAGTGGCTGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTGGTGTCTCCAGAG
CTGTCCAGGAATTTGGTCTTGCCCGGTTCAAAAGCAACGTGACCAAGACTATGAAGGGTTTGAATATATCTTGG
CTAAGCTGCAAGGCGAGGCCCTTCCAAAAACATTGTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAAAGGAGA
CGGCACTGGCAGCTACAGAGAAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAGCAAC
AGTTTGTGTAGCCAGTCTACCACCACCACAGCACCCAGACAGCTAGGCTTAGCCCTCTGCCCTCCCTTCATTG
TACTTTATCATTAATAAATCAACTTCCAGCCCTGTCTGCTGTCTACGTGGTGGGTTGTGGGGATGCAGTTTGGCAT
CTGCAGTACACCAAGCACATGATTGATGTCTGAGCCAGGTCTGCTTATCTCCATTGGGCAGCTGAGGACCGAG
GCACAGAGGTGCGGTGACTTGCCCGGGGCTCCAGGTAGCCTGCAGGTAACTGGCGGTAAGTGCTAGACTGTAAG
CCCGACAAGGGCAGGGCTTTTGGTTTTGTTCTCTGATGTGTCTCAGTATCTAGCACATAATAGACACTCAATAAA
TACTTGTGTAATTCAAA

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FIGURE 1541

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDNSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQOQQQQQFV

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FIGURE 1542

GGTCGGGACCGGCAAGATCGCGGCGCGGACAGCGTTCCGGTGCTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAA
TTTTTCTGTAAACACTTCTAAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACCAATATGAAGTGGGT
ACAGTTTTCAAACCTACACGTTGATGTTCCAAAGGATTTGACCAAACCTGTGGTAACAATCTCTGATGAACCAGA
CATATTATATAAGCGCCTCTCGGTTTTGGTGAAAGGTCACGATAAGGCTGTATTGGACAGTTATGAATATTTTGC
TGTGCTTGCTGCTAAAGAACTTGGTATCTCTATTAAAGTACATGAACCTCCAAGGAAAAATAGAGCGATTACTCT
TCTCCAATCAGTGCATATTTACAAGAAGCACAGAGTTCAGTATGAAATGAGAACACTTTACAGATGTTTAGAGTT
AGAACATCTAACTGGAAGCACAGCAGATGTCTACTTGGAAATATATTACGCGAAACTTACCTGAAGGGGTTGCCAT
GGAAGTAACAAAGACACAATTAGAACAGTTACCAGAACACATCAAGGAGCCAATCTGGGAAACACTATCAGAAGA
AAAAGAAGAAAGCAAGTCATAAAGCCTCAGGGAGGCCATTTTTGCCATAAATTTGAAATGAGGGTGGGCCAGATGA
GTATGTTTAAAGTGGAGAGTGCTTCCAGCTGAGATGATTTGAGTCTGTCCTAACTGCTCCATTGAGTTCTCGTGCC
CTCATCAGCTGAGGGCAGGGAATGGAACCTTTAATGGAAGAACCCTTTTATCTATTCTTTTATTTCATTGTTTCA
GTTCTGATTTTACGAAACATGAGCAAACCCTTTGACTGAAAGCAGAAAGAGTGAATAATCTATTTTGTACGCT
ACTGGTGTTCAATTATTAGTTTGTACCATTTTTAATTTATGTGAGTTGATGCATCTGAAAAAAGTGCTTGGAGT
GTTGCTACCTTTATTTTTTTTAAAGATTCCTAGAAAGGAATCTTTGGTTAATTCAGATTGAGCAGTTAAAGTTTTT
GCTATTTACCTTTTGTGAGGCTGGCATATGCTAATTTGGGGGTGGTAACCAACCGATTTTATCTCATGTAAGCAT
TACATTTTGAAGACTGAATATACTTCACAGCAGATCAAACACATTTATGGCATGCACTGACCTCTTCTTGAGGCC
CAGAAGCTTTATAGAGTTGCCTACCAGGGTTACTGTAATGGAATTTATGATCTTAAGAAATTACTAGTTGTATTAT
TTATCCTATGATTCATTCAATTAAGCTTTTACTGCATAAACTTTACATCCAGCACTGTAGTTAAGTACCCAA
AATTGAATAGAAATAATGGCTTTTAAAAATTGCACAAAGCAGGCCAGGCACGGTGGCTCACGCCTGTAATCCCAG
CACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCCAGACCATCCTGGCTAACACGGTGAAACCCC
GTCTCTAATAAAAAATACAAAAATTAGCTGGACATGGTGGCACGTGCCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCGTGAACCCGGGCCCCGGTGGAGGCTGCAGTGAGACGAGATCGCGCCACTGCACCTCCAGCCTGG
CGACAGAGCGAGACACCGTCTCAAAAAAAAAAAAAAGAAAATTGTGCAAAGCATAGGTAAATATTTTTCTTTAT
TAAGCTTCTCACTGAGAAGCCCTCTTTATTTTGGTAAATGTCACCTCTGTTTGTAGGAGATGTCTGCTTTTCCAT
GAAATGAAATAGTGGCTAAAGCCCTGAAAGAGGCAAGACTACAATGGGCTGAAACAGTTGGTATAGCAACCCAG
AGAAGTGCTTCATTTTCTTTTATAGTAGAAGCAGGTCCATGTCTTTTGTGGTTTCTGACATCTTTGGAGTAG
TTATGACTTCTCAGTTTTTCCCCCTTAAACTGCATTGCCTATTCTTTTTTCTGACATGCTATCAGGTATCAGT
GTGTTGAATACATAATGCTTGTGTATCAGACTTACGTTACTGTCTATCACCATTAAAAGAATTGCAGCCTTGTGCC
CCATGACCTTCA

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FIGURE 1543

MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGGLLLSTNMKWVQFSNLHVDVPKDLTKPVVTISDEPDILYKR
LSVLVKGHDKAVLDSYEYFAVLAAKELGISIKVHEPPRKIERFTLLQSVHIYKKHRVQYEMRTLYRCLELEHLTG
STADVYLEYIQRNLPBGVAMEVTKTQLEQLPEHIKEPIWETLSEEKEESKS

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FIGURE 1544

ATGGCGTCGGTGGTGTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCT
CTTGCTGTCAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATCAGGCAGACGC
CAAGGCATTAAGAAAATGGAAGGTCACTATGTTCACTGCTGGGAACATCATTGCAACACAGCGCCATTCCGCTGG
CAGGAGGTGCCCCATGTGGGTGTTGGGAAGAATAAATGTCTGTATGCCCTGGAAGAGGGGATAGTCCGCTACACT
AAGGAGGTCTACGTGCCTCATCCAGAAACACGGAGGCTGTGGATCTGATCACCAGGCTGCCCAAGGGTGCTGTG
CTCTACAAGACTTTTGTCCACGTGGTTCCTGCCAAGCCTGAGGGCACCTTCAAACCTGGTAGCTATGCTTTGA

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FIGURE 1545

MASVVLALRTRTAVTSLLSPTPATALAVRYASKKSGGSSKNLGGKSSGRRQGIKKMEGHYVHAGNIIATQRHFRW
HPGAHVGVGKNKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLYKTFVHVVPAPKEGTFKLVAML

1697/2682
FIGURE 1546

GCAGACGCAGGGGTGCGCGCCGGGTGAGAGCGTGCGGCCGGATTACCACAACATGGCAAAATCTTTTATAAGGA
AAATGGTGAACCCCTCTGCTCTATCTCAGTCGTCACACGGTGAAGCCTCGAGCCCTCTCCACATTTCTATTGGAT
CCATTGAGGTGCAGCCCCGTTGGCTGTGGAACCCGGGGCAGCAGTGCCTCACTTCTCTCACC CGCCTCCTGC
CCCATCTGCTGCCTGCGCTGGGGTTCAAAAACAAGACTGTCCTTAAGAAGCGCTGCAAGGACTGTTACCTGGTGA
AGAGGCGGGGTGCGGTGGTACGTCTACTGTAAAACCCATCCGAGGCACAAGCAGAGACAGATGTAGACCCTTTCCC
TCCAGAGTCACGCACATACTCGTCATCGCATCACTTGGGAGAATGGTTGTATCTTATGGAAGGAATTATCACATC
AAGGAGTCAGGGGAAAGTGAAGTGAAGCAAACGCCCTAAAAGTTACCCATCACGTTTCAGTGTAATGAGTAACT
ATAGAAGACATTGCGTTATCTTATTTCCAAAACGTTCCAATAAAAAACATTTTCCTATTAAATAGACCTTCG
ATAAAAAAAAAA

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FIGURE 1547

MANLFIRKMNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGA AVRSLSPGLLPALLPALGFKNKTVLKKR
CKDCYLVKRRGRWYVYCKTHPRHKQRQM

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FIGURE 1548

TAGTTTGC GTTTTTACCTGGTCGCCCCGGCGGCCATGGCGGCCGTTCTGAAGCCGGTGCTGCTGGGCCTTCGAGAT
GCGCCGGTGACAGGCAGCCCCACAGGGCCGGGTGCCTGGACTGCTAGCAAGCTGGGCGGCATTCCGGATGCTCTG
CCCACCGTGGCTGCGCCCAGGCCCGTGTGTCAGCGCTGCGGGCAGCCGCTCGCTCTGGTCTGTCAGGTGTATTGC
CCGCTGGAAGGCTCCCCGTTTACCGTCTGCTGCACGTGTTTCGCGTGCGCCTGCCCCGGCTGTAGCACCGGCGGT
GCGCGCAGCTGGAAGGTGTTCCGCTCCCAGTGCCTGCAGGTGCCAGAGAGAGAGGCGCAGGACGCTCAGAAACAG
GGAAACAGCCTTGCAGCTGAGGACTGGTGTGAAGGTGCTGATGACTGGGGAAGTGATACTGAGGAGGGGCCTTCA
CCACAGTTTACCTTGGATTTTGGGAATGATGCCAGCAGTGCCAAAGACGTAGACTGGACTGCTCGGCTCCAAGAC
CTCCGCCTGCAGGATGCTGTCTGGGTGCTGCCCATCCTGTGCCTCCTGGGCTGCCGCTCTTCTGCCCTACTAC
ATCTGTGTTGCAGATGAGGATGATTACAGGGACTTTGTCAACCTGGATCATGCCACAGCCTTCTGAGGGACTAT
CAGCAGAGAGAAGGCATTGCCATGGATCAGTTGCTTTCCCAAAGCCTTCCTAATGATGGTGATGAAAAATATGAG
AAGACCATAATTAAAAAGTGGAGATCAGACGTTTTACAAATTCATGAAGCGAATTGCTGCTTGTCTAGGAGCAGATT
TTGAGGTATTCTGAGTGGAGAGCCACTCTTTTTGACCTGCCCTACATCAGAAGTCACCGAGCTCCCAGCCTGC
AGCCAGTGTGGAGGCCAAAGGATATTTGAGTTTCAGCTTATGCCAGCACTGGTCAGCATGCTCAAGAGTGCTAAT
ITAGGTCTTTCTGTGGAATTTGGAACAATTCTAGTTTACACATGTGAGAAGAGTTGCTGGCCCCCAAATCATCAG
ACTCCCATGGAAGAATTTGTATTATACAAGAAGACCCAGATGAATTATTGTTTAAGTTAGAGCATTTCCTTTTAT
TAATATAAATTAAAACAAATGTTTACATCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1549

MAAVLKPVLLGLRDAPVHGSPTGPGAWTASKLGGIPDALPTVAAPRPVCQRCGQPLALVVQVYCPLEGSPFHRL
HVFACACPGCSTGGARSWKVFRSQCLQVPEREAQDAQKQGNLAAEDWCEGADDWGSDEEGPSPQFTLDFGND
SSAKDWDWTARLQDLRLQDAVLGAHPVPPGLPLFLPYICVADEDDYRDFVNLDHAHSLLRDYQQREGIAMDQL
LSQSLPNDGDEKEYEKTIIKSGDQTFYKFMKRIACQEQILRYSWSGEPLFLTCPTSEVTELPACSQCGGQRIFEF
QLMPALVSMLKSANLGLSVEFGTILVYTCEKSCWPPNHQTPMEEFCCIQEDPDELLFK

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FIGURE 1550

CCTCGCCCCGCCTACGCGGGGAACCCAACCGCGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTGCTGC
AATGGCCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCCACGGGCCGTGGAACAGCACAAATGGCAA
GACCATTTTCGCCTACTTTACGGGTCTAAGGACGCCGGGGGAAAAGCTGGTGCCCCGACTGCGTGCAAGGCTGA
ACCAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCTACACTACTTAAGTATGG
AACACCTCAAAAACTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAATGTTGTTCTCTGAAGATTTAAGA
TTTTAGGATGGCAATCATGTCTTGATGTCTGATTGTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAAATGCCCATGAACCT
TTAGTTTGCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGGTAATACCTAAAACTCCTAAAGGTGCAGAGC

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FIGURE 1551

MARYEEVSVSGFEEFHRAVEQHNGKTI FAYFTGSKDAGGKSWCPDCVQAEPVVREGLKHISEGCVFIYCQVGEKP
YWKDPNNDFRKNLKVTA VPTLLKYGTPQKLVESECLQANLVEMLFSED

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FIGURE 1552

GGCACGAGGGTCATCGCCGCGGGGCGGAGGCGACAGTGTCTAGCGGGAGCTCCGCGTGTAGCTACGCCGGCCGCC
TGGCTTTGAGACAACGTGATTCTCCGCAGCTGGTCGCCTACCCGTGATGTTCTGCCACGTGAGACCTGAGCTG
AAATGGCAGACGATCTCGGAGACGAGTGGTGGGAGAACCAGCCGACTGGAGCAGGCAGAGCCAGAACATCAG
ATGGTGAAGGAGAAGGAGACACAGAAGTGATGCAGCAGGAGACAGTTCAGTTCCTGTACCTTCAGAGAAAACCA
AACAGCCTAAAGAATGTTTTTTGATACAACCAAAGGAAAGAAAAGAGAATACCACCAAGACCAGGAAAAGAAGAA
AGAAGAAAATTACTGATGTTCTTGCAAAATCAGAACCAAAACCAGGGTTACCTGAAGACCTACAGAAGCTGATGA
AGGACTATTATAGCAGCAGACGCTTGGTGATTGAATTAGAAGAACTGAACCTGCCAGACTCCTGTTTCCTCAAGG
CCAATGATTGACTCACAGTCTTTCCTCATACCTAAAAGGAATTTGTCCTAAGTGGGTAAAACCTTAGGAAGAACC
ACAGTGAGAAGAAATCGGTCCTGATGCTGATCATCTGCAGCTCGGCCGTCCGAGCCCTGGAGCTCATTAGGTCGA
TGACAGCATTGAGAGGAGACGGCAAAGTTATAAAATTATTTGCAAAGCACATAAAGGTCCAGGCGCAGGTAAAGT
TGCTGGAGAAGCGTGTGGTGCACCTGGGTGTAGGAACTCCGGGGAGAATTAAAGAACTTGTTAAACAAGGTGGCC
TTAATTTGAGCCCCCTTAAATTTCTGGTTTTTACTGGAATGGGAGATCAGAAGTTGAGGAGAATGATGGACA
TTCCCGAGATAAGAAAGGAGGTATTGCAACTTCTGGAAATGGGAGTGCTCAGTCTGTGCAAGTCAGAAATCCTTGA
AACTGGGCCTTTTCTAAGTCTGTGTCTTAATGAAGATTCCAGTTTTTCACAGTAGAAGTTGCATCTTATTTAATGA
CTCTGATACATTGCAAGCACTCAGTAAATATCAGCAAATAGTTTATGTTAATTGTGTCAACAGATGGATCACTGG
AATGTGGGGATTCTGAAACAGAAATGAAACTGTCCTTTTGACAACCTCTCTTATATAATAAAGTATCACCGGCTTG
TGTATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1553

MADDLGDEWWENQPTGAGSSPEASDGEGEDTEVMQOETVPVPVPSEKTKQPKECFLIQPKERKENTTKTRKRRK
KKITDVLAKSEPKPGLPEDLQKLMKDYYSSRRLVIELEELNLPDSCFLKANDLTHSLSSYLKGICPKWVKLRKNH
SEKKSVMMLIICSSAVRALELIRSMTAFRGDGKVIKLFKHKIKVQAQVKLEKRVVHLGVGTPGRIKELVKQGGL
NLSPLKFLVFDWNWRDQKLRRMDIPEIRKEVFELLEMGVLSLCKSESILKGLF

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FIGURE 1554

GGGTGTTGCGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAACTTGTTTTCTTCAAGCTCTTCTGGCAG
TGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTGCTCCAGAAAAACCTGTAAAGAAACA
AAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCAGCAGCAGAGATGATAACATGTTTCA
GATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGCTAATTGATATTAGAGAATATTGGAT
GGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATCCAGAACAATGGAGCCAGCTGAAGGA
ACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAATTCGAGCCATATAAAATAAAACCTGTACTGTTCT
AGTTGTTTTAATCTGCTTTTTTACATTGGCTTTTGTCTTCTAAATGTTCTCCAAGCTATTGTATGTTTGGATTGC
AGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAATAATATGAGTGAAGCTAATTGTCAACTT
TATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAATAATAAATCAAGTAATACAATCTTAACTGTTGTGGCC
TTTTTGTATCATAAGAGTTGGTACTGTTTAAAGGCCAAAAGTAACAGTTTTTATAGATCTTTTAGTTTCAACTCAG
CTTTTACAATAAAAAGGATTGTATTGCATTGAGTTTATAAACTTTTGGTTTGTGAACCTTCATATTTGATCTTTT
CTCTTCCAATCAAATGTCTAGGCTTGTTTGACTTCCACCCCAATGGTTTTTCACTCTTTTTATTACTTTCATT
TCCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTATTCTTTTCTTTGATTATGGTATGCTT
ATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTATATGAGAACTACAATCACCGAATCT
ACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGTGAAAAGTGAAGCAGGTGTTTGTTTAC
CCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTAGATGAGATGTCTGACTTGCTTTTAC
TTATTAACATGTTTACCATGGGATGATGTCTGTAACATCAGATATTGTTCACTAGACTAGGATTTAATAAAAA
TTGTGAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1555

MPKSKELVSSSSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGKRGISLNPEQWSQLKEQISDIDDAVRKL

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FIGURE 1556

ATTTTCCGGGAAGATGGCGGCGCACAAAGTCAGGTCCGGGCACATGTTTCCGCGGAGCGGACCCAGCAATGACGGAT
GATATCACCTCTTCTTCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACCATGAATGTCACCCCAGAGGT
CAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCG
GAAGGAGAATGGTATCACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCCTGC
CAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGAAACTGGGCA
GGATGGAGTACAGATAAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCAAGCCCAACTTGCTGTATCA
GAAGTTTGTGAAGATGGCCACATTGACTTCAGGTGGAGAGAAGCCAAACAAAGACTTGGAGAGCTGCAGTGATGA
CGACAACCAGGGGTCCAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGC
ACACAAGGCTGCCCCGTCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCT
GGCTCGTCTCAAAGGCCAGGACCCTGGGGCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCAAAAAAAAAAAAAA
AAA

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FIGURE 1557

MNVTPEVKSRGMKFAEEQLLKHWGTQGKGLGRKENGITQALRVTLKQDTHGVGHDPAKEFTNHWWNELFNKTAAN
LVVETGQDGVQIRSLSKETTRYNHPKPNLLYQKFVKMATLTSGGEKPNKDLESCSDDDNQGSKSPKILTDEMLLO
ACEGRTAHKAARLGITMKAKLARLEAQEAFLARLKGQDPGAPQLQSESKPPKKKKK

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FIGURE 1558A

GTGGACCCAGGGTGGGGAACCTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTCGGCCTGGGCAACCTGCGCT
GAAGATGCCGGGAAAACTCCGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGCG
AAAGCAAACCGAGGAGAAAGAGAAAAAGAGAAGCCAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGA
AACTGTTTTCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATC
CAAAAAGGCAAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCTAAAACCAAAAGTTTGAGAAAGAAAA
GGAGCCCATTGAAAAGAAAGTGGTTTCTTCTAAAACCAAAAAAGTGACAAAAATGAGGAGCCTTCTGAGGAAGA
AATAGATGCTCCTAAGCCCAAGAAGATGAAGAAAGAAAGGAAATGAATGGAGAACTAGAGAGAAAGCCCCAA
ACTGAAGAATGGATTTCTCATCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGA
GATAGAGCAGGAATACCTGTGGAACAAAAAGAGCGCTTCTCTAATTTTCCCATATCTGAAGAACTATTAA
ACTTCTCAAAGGCCGAGGAGTGACCTTCTATTTCTTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAA
GGACTTAATTGCACAGGCACGGACAGGAAGTGGGAAGACATTCTCTTTGCCATCCCTTTGATTGAGAACTTCA
TGGGGAAGTGAAGACAGGAAGAGAGGCCGTGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAA
TCAAGTAAGCAAAGACTTCAGTGACATCACAAAAAGCTGTCAGTGGCTTGTTTTATGGTGGAACTCCCTATGG
AGGTCAATTTGAACGCATGAGGAATGGGATTGATATCTGGTTGGAACACCAGGTGATCAAGAACCCACATACA
GAATGGCAAACCTAGATCTCACCAACTTAAGCATGTTGTCCTGGATGAAGTGGACCAGATGTTGGATATGGGATT
TGCTGATCAAGTGAAGAGATTTTAAGTGTGGCATACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTT
TTCTGCAACTTGCCCTCATTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCT
GATTGGTAAAAAGACTCAGAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGC
AGCAGTTATTGGGGATGTCATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAA
AGAAGCCCAGGAGCTGTCCAGAAATTCAGCTATAAAGCAGGATGCTCAGTCTTGCATGGAGACATTCCACAGAA
GCAAAGGGAATCACCCCTGAAAGGTTTTAGAAATGGTAGTTTTGGAGTTTTGGTGGCAACCAATGTTGCTGCACG
TGGGTTAGACATCCCTGAGGTTGATTGGTTATACAAAGCTCTCCACCAAGGATGTAGAGTCTACATTCATCG
ATCCGGGCGGACAGGCAGAGCTGGAAGGACGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTT
AGTACAAGTGGAGCAAAAGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAGC
TTCCAGCAAGATGCCATCAGGCTTTTGGATTCCGTGCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGA
GAAGCTGATAGAGGAGAAGGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTCAAGTGCCACGTCCGT
AGACCAGCGCTCCTTGATCAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAAGTCTCAATTGAAATGCCAAA
TATTAGTTATGCTTGGAAGAAGCTTAAAGAGCAGTGGCGGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTT
TCTCAAAGGAAAGCTGGGTGTTTGTCTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGA
TTACAGACGCTGGCAGCTCTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTT
CAGGGGACAGCGGGAAGGCAGTCGAGGCTTCAGGGGACAGCGGGACGGAACAGAAAGATTCAAGGACAGCGGGA
AGGCAGTAGAGGCCCGAGAGGACAGCATCAGGAGGTGGCAACAAAGTAACAGATCCCAAAACAAAGGCCAGAA
GCGGAGTTTCAGTAAAGCATTGTTGTTCAATAGAAATAGAAGATTTATATAGCAAAAGAGAATGATGTTTGG
CAATATAGAACTGAACATTATTTTTCATGCAAAAGTTAAAGCACATTGTGCTCCTTTTGACCACTTGCCAAGTC
CCTGTCTCTTTCAGACACAGACAGCTTCATTAAATTATTTTCATCTGATCATTATCATTATAACTTTATTGTT
ACTTCTTCATCAGTTTTTCTCTTTTGAAGGTGATGAATTCATTACATTTTTATTCTAATGTATTATCTGTAGAT
TAGAAGATAAAATCAAGCATGTATCTGCCATACTTTGTGAGTTACCTGTCTTTATACTCAAAAGTGTCCCTTA
ATAGTGTCTTCCCTGAAATAAATACCTAAGGGAGTGAACAGTCTCTGGAGGACCACTTTGAGCCTTTGGAAGT
TAAGGTTTCTCAGCCACCTGCCGAACAGTTTCTCATGTGGTCTTATTATTTGTCTACTGAGACTTAATACTGAG
CAATGTTTTGAAACAAGATTCAAACCTAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGG
AGATGTAGTATGTTTGTGATTACCTATCTTATGTTCTGTTTGGATACATTTTATGCTTCTCATTATAAGGT
GATTCTAGCTTTAGTGAATCTTCATAGATAGTATATATAAAGTACATTTTAAATAGAAAGCCAGGGTTTTAAGG
AATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGT
ACTCCACTTCTCTTATTGGAAGATTAACTATTTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGC
ATTGCTCAAGAGTATGTAAGGCAAGAGAGAAAGCAAGTATGATTGGATGATAAAGCATTGTTTTAATGGTGAAAA
CTTCACAGATCACTAATGTTTTCTAGAGTTAACTTCAAGTGGGCAAGCTGGGGTTTTAGGTAGTCACTGGCCTA
GTTCTAAAGCCACAGTATAGGATCTGTAAACTGAATGTCTGTTGAAAGTTTGTGTTTAGCTGCTTGGAGGCTTC

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FIGURE 1558B

CTTTTAAGACAACTGTATGTGATTAAGTTGTTTTGAGGGAACCTGAAGAACCTGAIGTAGCCCTGGCCAGATAA
CTGCCTGATTTCTCAGATATTATTTCTCTGGGAAACATTCTACATAGCACAGGAGCTTAAGAGTGGCATTATCTT
CTCGCCTTAATTTCCAGAGATTATTTCTGTACTGAGAATCCTGGAACCTACTATGCTAGGAAATTTAAAGCTGCAT
GGTCTGTCTTGTTCATTTAATTATTGTGAATACCTAGAATCTTTCTTGGTCCTGATTTCTCTTGCTTAATCCA
GTCTTTATCTCTAACTGCCCCCTTATTTGATCACCATGTACTAGGAGCTCTGATAGCCAGCTCAGCTCCTAATCCT
TGAGGCAACATTCTTTTTCTATTTGAACTTCAGTTCTGTCCTTGAATCCCGACTAGATATTTCTTGCCCTCTGGT
CTCAGAATTCTCTTGGCTTTTATTCCTTGATCCACTTGCCAGTTTTATCACTTTACCCTTGTTCTCATGGCTTC
CCATCAAGCCATGGGTATTAGGTGACAGTGTAATTTATTAGATTCTGGTTTTGCCCAAATACTGGGCATGCTTTA
ATAATAACTGAACCATTTCAATTATTTGGATAGGCATGGGTACCTTATCAAGCAGATTAAAAGGATATGGTACCCG
TCCTTTAGAAAAGAACAGCTAAAACCTTGTTGTGGATTATGGATTTAGCCTAAAGAAAAATAATCTGGCATAAAT
TAAGAGTAAGAGAGAAGATTAATAGAAATTCACCTCACATAACTTAAACATGGCTATTTCAATAAAGGACTAA
AGTTTCTCCTGGATCCCAGAATTCAACCTGTATTTATAAATGTATAATGTATTTAGCTACTTTTGGTTTTAAATG
AACTTGTGGGTAGCTTGGTAAATGTTATAATTTTACTGTTTTCTACAAAGAAAAATTTTCTAATTTAAGTT
GGAGCTATCTGTGCAGCAGTTTCTCTACAGTTGTGCATAAATGTTTTTACTATAAAATGAGCTAATGTATAAAT
ACTGCTGTATACCATAATAAAGATAGTAATACTTGAAAAAA

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FIGURE 1559

WTQGGELPLPLHAVEKTGRPGQPALKMPGKLRSDAGLESdTAMKKGETLRKQTEEEKKKPKSDKTEEIAEEEE
TVFPKAKQVKKKAEPSEVDMNSPKSKAKKKEEPSQNDISPKTKSLRKKKEPIEKKVVSSKTKKVTKNEEPSEEE
IDAPKPKMKKEKEMNGETREKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIK
LLKGRGVTFLEFPIQAKTFHHVYSGKDLIAQARTGTGKTFSAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELAN
QVSKDFSDITKKLSVACFYGGTPYGGQFERMRNGIDILVGTPGRIKDHQNGKLDLTKLKHVVLDDEVDMQMLDMGF
ADQVEEILSVAYKKDSEDNPQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRA
AVIGDVIRVYSGHQRTIIFCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAAR
GLDIPEVDLVIQSSPPKDVESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEI IKA
SSKDAIRLLDSVPPTAISHFQSAEKLIEEKGAVALAAALAHISGATSVDQRSLSNSNVGFVTMILQCSIEMP
ISYAWKELKEQLGEEIDSKVKGMVFLKGKLGVCDFVPTASVTEIQEKWHSRRWQLSVATEQPELEGPREGYGGF
RGQREGSRGFRGQRDGNRRFRGQREGSRGFRGQREGSGGNKSNRSQNGQKRSFSKAFGQ

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FIGURE 1560

CGAACACGCCGCGGTCTCGTCGTGGTGAGCGCAGCCACTCAGGCTGGTCCTGGGGGTGGGGCTGTAGGGGAAAG
TGCTAAAGCCGCTGAGTGAAGTAAGAACTCTGCTAGAGAGGAAATGGCTGCTTCATCATCATCCTCCTCAGCTGG
TGGGGTCAGTGGAAGTTCTGTCACTGGATCTGGTTTCAGTGTCTCAGACCTTGCCCCACCACGGAAAGCCCTTTT
CACCTACCCCAAAGGAGCTGGAGAGATGTTAGAAGATGGCTCTGAGAGATTCTCTGCGAATCTGTTTTAGCTA
TCAAGTGGCATCCACGCTTAAACAGGTGAAACATGATCAGCAAGTTGCTCGGATGGAAAACTAGCTGGTTTGGT
AGAAGAGCTGGAGGCTGACGAGTGGCGGTTTAAGCCCATCGAGCAGCTGCTGGGATTACCCCCCTCTTCAGGTTG
A TACTGCCTGGATGGTCACCTCTGGTGCGCAGCAAGTGCAAAGCCAGTGGGGGACTTTCTCACAGCTTACATAGC
CATCCAGAGATCCACAGCTACGTCACTGAATTGTTAATGCACATTTGTACTTGGTTTTCTGTATCTATTACAG
GCAACAAATACTTATATGTGTGATCTTTCAGGGAATGTTTTGTTTATTTGTTTTTAAAGTATTGGAATCAGAT
TAAGACAATCAGTTTCAGAGAACCAGGAGGTTTGGGGTTAAGAGATACTCAAAAATTTTCACAAGCCAAGTAGGG
CATAATCAGATTTGGCCAACTGAATGGCGTCTGTCTGTCTCATCCATATGGTGCCTGGAATATTTACCAGTCAA
GGTCAAGGTCAGCATCTGTGGTTAAAAATATAGCATTCTGACCTAAAAAGTTATTTTGAGATGAATGTGTTTT
CAACTCAGGACCTATCCAAATGAGGAATTTTAAATATTCTTTTTTTTTTCTATTTTGTAGACATCAATTCTATA
GATTCTGACTTTTTCTAACCTCTTATAGACATGCCAAATGCTGGCAAAAAGAAGTGCTTTTTGGATATGGCAGCA
CTTGTAATAAAGCAGTAAGCAAAATCCTTTTAAACACAGAAATCCTGAGTTCTTCTCATTTGGTGGACTCAAG
CAATTCTGTAGCAAATAAATCCTTTGAAAGAGCTCCAAAAAAAAAAAAAAAAA

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FIGURE 1561

MAASSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSERFLCESVFSYQVASTLKQVKHDQQ
VARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

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FIGURE 1562

AGCGCCGCGTGGTTAGCGTCGGCGGGCTTTTGGCATGGCGACTTTTCTGGCCCGGGCTGGGCCAATCCTGTCGCTT
AATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGAAGCGCATAACCCAGCGAAAAAAACAA
GAACAACCTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCCAGATCTTTTCATAT
TTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATAGCAAAGGCTATGCA
TTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACCTGTTTGGTGAAAGA
CTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGTCTTTAAAGACTGGAATATTCCATTTAAG
CAGCCATCATATCCATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTACGGATGGAGGAGCGA
TTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATTTTCCTTCTTTGATT
TTACAGAAAACGGAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTTTACGTAAGAAGAAG
AAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACACCAGTTTGTACACCA
ACATTTTGGAGAGGGCGAAAATCTCAAGTGGCTGAAGTGAATGATGATGATAAAGATGATGAAATAGTTTTCAA
CAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGAAAAAAGACGAAGA
AGCAGCAATCAGTGAATTTCAATGTATTATATTTCTTTGAAAAATATAATATTTTATGAGAGTGGACTTTGTA
TTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTTTGGTCAAGTTAAGG
AAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCTTGCACTGGCTTGGC
TGACATTGCCTCTCTGTCCCTGGCCTCTAGTTTCTTTTGATATTTTCATAGCTCTCCTTAGTTTACTCTGCCTGGA
TAGAAAGTTGACCACTAAGTGCAGGTTTAAAGTAACTGCAGCCTTTTCTGTGCGCCAGCAATTAAAGACCACC
AATCTTGTTTGTCCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGATTTCAACATCAGAT
GGTTGAAGCTGGAAGTTTAAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTTCAGACAGATTTGTTTATGTGTT
CAGATTTTAAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTGGTTGTGCTAGCATGA
ATTAATAACCAACATTTTATACCAGTATCATCAGTGAAGAATTGATTTCAAGATTCAAACAATAACCAGCAATT
AAACTTTTTTCTACAATGTAAAAA

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FIGURE 1563

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELEFKDOWNIPFKQPSYPSVKRYN
RNRTL TQKL RMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPE
KTIVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1564

AGCGGGTTTGC GGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTCTGGCCCGGCTGGGC
CAATCCTGTCGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC
AGCGAAAAAACAAGAACAACCTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC
AGATCTTTTCATATTTCTCCAGTTTGGCACTGTGACACGGTTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA
GCAAAGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC
TGTTTGGTGAAAGACTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAACCTTTTAAAGACTGGA
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC
GGATGGAGGAGCGATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAGGAATTGACTATGATT
TTCCTTCTTTGATTTTACAGAAAACGGAAAGTATTTCAAAAATAATCGTCAGACGTCTACAAAAGGCCAGGTTT
TACGTAAGAAGAAGAAAAAGTTTCAGGTA CTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC
CAGTTTGTAACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATAAAGATGATG
AAATAGTTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA
AAAAAGACGAAGAAGCAGCAATCAGTGATTTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGA
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCCTGCCCTTGCTGAAATACAGGGGTGCATACCATCT
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTGGCCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGT
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAACTACTAACTGCAGCCTTTTCTGTGCGCCAGC
AATTAAAGACCACCAATCTTGTGTGTCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCAGTTTTAGCACAGA
TTTGTATATGTGTTTCAATTTAATAGAGATTCAAAAATGACTCATTTTACCATAATGTAAATTAGTTTTGG
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGATTTCAAGATTCAAAC
AATAACCAGCAATTAACTTTTTTCTACAATGTATTGTTTGGCAGTAGGACTTGGGAGTCATTGGAAAAAAA
ATAATAAATTTCCCTTCATTAAACAAAAAAA

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FIGURE 1565

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN
RNRTLTKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVDSQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1566

ATTGAANTTAGGTGACCCNATNGAAGNGCTATNACGTNGCATGCACNGCGTACGTAAGCTCGGAATTCGGCTCGA
GAAAAAAAAAAGTGCCAGCGTATGAGGTAATTAGATTGGTTCTCTCCAGAGGTAACCTGCCAAGAAGAGATGCTA
TAGATGTTACTCCTATACTGTAAACATTGTGAAATCAGATTACTTTAAATGATGTATTACAAAGTTATGCAAA
AAAGCAGTTGTGACTATGGAAGCCCAAGGCTTATATCCCAGCTCTGTCTTACACTAAATATGGGTACAGTGTTTC
CACTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAAGGGATTAAACAAA
ACAATAGTTTGTAAATTTATTCTGTCAGAGCAAACCTGCTGGTAAATAAAAGGGACTAAGTTGACGAAAAATAAATT
TTAAAAACCTAATAAAACAAGTTTGTAAATTTATAATTGTATACAAATAAAAGATGTTACAAAAATTGCGCACTT
ATATGTATGTACCATGACATAACTAATTCGTTGAACAAGTTGTGAGACAATCCTTTCTGAGAAAAGGTAGACCTG
TTACATCGTCTGTGGGTTAGGGTCATGTCAGCACGTACCAGGTACATTCTAGCTTTTGTAGAGAAAGTAAATCT
AGTGTGAGTATGTAGGCACTGAGCCAGGTGGCCTGCTTAACATAAAAGGACTGATTTTCAGGGTGGCTGTGGGAG
CCTTTCTAATGCTCTAATTCTCTAGCCCCCTGCCTGATCCAGCTGATTCCAAGAGCCAAGATTTTAGTCTTTCTT
GGTTGGCTTTTTTAAATGCTTTGGGCTTTCCTTTAATGTATCTTCAAATCATTC

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FIGURE 1567

LXLGDPXEXLXRXMHXVRKLGIRLEKKKSASV

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FIGURE 1568

GGCGCTCCGCCTGCTGCGCGTCTACGCGGTCCCCGCGGGCCTTCCGGGCCCACTGCGCCGCGCGGACCGCCTCGG
GCTCGGACGGCCGGTGTCCCCGCGCGCCGCTCGCCCGGATCGGCCGCGGCTTCGGCGCCTGGGGCTCGGGGCTC
CGGGGAGGCCGTGCCCCGCGATGCTGCTCTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCCCGCGGCGTGG
ACCACCTCCCGGTGAAGATCCTGCAGCCAGCCAAGGCGGACAAGGAGAGCTTCGAGAAGGCGTACCAGGTGGGCG
CCGTGCTGGGTAGCGGGCGGCTTCGGCACGGTCTACGCGGGTAGCCGCATCGCCGACGGGCTCCCGGTGGCTGTGA
AGCACGTGGTGAAGGAGCGGGTGACCGAGTGGGGCAGCCTGGGCGGCGCGACCGTGCCCTGGAGGTGGTGTGCTGC
TGCGCAAGGTGGGCGCGGCGGGCGGCGCGCGCGGCGTATCCGCTGCTGGACTGGTTCGAGCGGCCGACGGCT
TCCTGCTGGTGTGGAGCGGCCCGAGCCGGCGCAGGACCTCTTCGACTTTATCACGGAGCGCGGCGCCCTGGACG
AGCCGCTGGCGCGCCGCTTCTTCGCGCAGGTGCTGGCCGCGGTGCGCCACTGCCACAGCTGCGGGGTGCTGCACC
GCGACATTAAGGACGAAAATCTGCTTGTGGACCTGCGCTCCGGAGAGCTCAAGCTCATCGACTTCGGTTCGGGTG
CGCTGCTCAAGGACACGGTCTACACCGACTTCGACGGCACCCGAGTGTACAGCCCCCGGAGTGGATCCGCTACC
ACCGCTACCACGGGCGCTCGGCCACCGTGTGGTTCGCTGGGCGTGTCTCTACGATATGGTGTGGGGACATCC
CCTTCGAGCAGGACGAGGAGATCCTCCGAGGCCGCTGCTCTTCGGAGGAGGGTCTCTCCAGAGTGCCAGCAGC
TGATCCGGTGGTGCCTGTCCCTGCGGCCCTCAGAGCGGCCGTGCTGGATCAGATTGCGGCCCATCCCTGGATGC
TGGGGGCTGACGGGGGCGCCCCGAGAGCTGTGACCTGCGGCTGTGCACCCTCGACCCTGATGACGTGGCCAGCA
CCACGTCCAGCAGCGAGAGCTTGTGAGGAGCTGCACCTGACTGGGAGCTAGGGGACCACCTGCCTTGGCCAGACC
TGGGACGCCCCCAGACCCTGACTTTTTCTGCGTGGGCGGTCTCCTCCTGCGGAAGCAGTGACCTCTGACCCCTG
GTGACCTTCGCTTTGAGTGCCTTTTGAACGCTGGTCCCGCGGGACTTGGTTTTCTCAAGCTCTGTCTGTCCAAAG
ACGCTCCGGTTCGAGGTCCCGCCTGCCCTGGGTGGATACTTGAACCCAGACGCCCTCTGTGCTGTGTGTCGG
AGGCGGCCTTCCATCTGCCTGCCACCCGAGCTCTTCCGCGGCGCAGGGTCCCAAGCCCACCTCCCGCCCT
CAGTCTGCGGTGTGCGTCTGGGCACGTCTGCACACACAATGCAAGTCCTGGCYTCCGCGCCCGCCGCCACG
CGAGCCGTACCCGCGCCCAACTCTGTTATTTATGGTGTGACCCCTGGAGGTGCCCTCGGCCACCGGGGCTATT
TATTGTTAATTTATTTGTTGAGGTATTTCCCTCTGAGCAGTCTGCCTCTCCCAAGCCCCAGGGGACAGTGGGGA
GGCAGGGGAGGGGGTGGCTGTGGTCCAGGGACCCAGGCCCTGATTCTGTGCTGGCGTCTGTCTGGCCCCGC
CTGTCAAGATGAACATGTATAGTGGCTAACTTAAGGGGAGTGGGTGACCCTGACACTTCCAGGCACTGTGCCC
AGGGTTTGGGTTTTAAATTATTGACTTTGTACAGTCTGCTTGTGGGCTCTGAAAGCTGGGGTGGGGCCAGAGCCT
GAGCGTTTAAATTTATTCAGTACCTGTGTTTGTGTGAATGCGGTGTGTGCAGGCATCGCAGATGGGGGTCTTTCA
GTTCAAAAGTGAGATGTCTGGAGATCATATTTTTTATACAGGTATTTCAATTAAATGTTTTTGTACATAGAAA
AAAAAAAAAAAAAAAAAAAAAGGGCGG

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FIGURE 1569

RSACCASTRSPRAFAHCAARTASGSDGRCPRRAARPDRPRLRRLGLGAPGRPSPAMLLSKFGSLAHLCPGGVD
HLPVKILQPAKADKESFEKAYQVGAVLGSGGFGTVYAGSRIADGLPVAVKHVVKERVTEWGS LGGATVPLEVVLL
RKVGAAGGARGVIRLLDWFERPDGFLLVLERPEPAQDLFD FITERGALDEPLARRFFAQVLA AVRHCHSCGVVHR
DIKDENLLVDLRSGELKLIDFGSGALLKDTVYTDFDGTRVYSPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIP
FEQDEEILRGRLLFRRRVSPECQQLIRWCLSLRP SERPSLDQIAAHPWMLGADGGAPESCDLRLCTLD PDDVAST
TSSSESL

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FIGURE 1570A

GACCGCGGCTGCAGGAACGGAGGCGGAAGGGGCCCTGCGGCGACGACGTCGTCGACGGGGGTGGCCGTGGGAGCT
GAGCACGGAGAAGACTCCCTCTCTCGGAAGCCGGATCCCGAGCCGGGCAGGATGGATCACCACCAGCCGGGACT
GGGCGCTACCAGGTGCTTCTTAATGAAGAGGATAACTCAGAATCATCGGCTATAGAGCAGCCACCTACTTCAAAC
CCAGCACCAGCAGATTGTGCAGGCTGTGTCTTCAGCACCAGCACTTGAACTGACTCTTCCCTCCACCATATAGT
AGTATTACTGIGGAAGTACCTACAACCTCAGATACAGAAGTTTACGGTGAGTTTATCCCGTGCCACCTCCCTAT
AGCGTTGCTACCTCTTTCCTACATACGATGAAGCTGAGAAGGCTAAAGCTGCTGCAATGGCAGCTGCAGCAGCA
GAAACATCTCAAAGAATTGAGGAGGAAGAGTGTCCACCAAGAGATGACTTCAGTGATGCAGACCAGCTCAGAGTG
GGGAATGATGGCATTTCATGCTGGCATTTCATGGCATTATTTTCAACTGGCTTGGAATTTGTTTATCCCTC
TGTATCACCATAACCATAGCTGGAAGGTATGGTGCTATCTGCGGATTGGCCTTTCCTTGATCAAATGGATCCTT
ATTGTGAGGTTTTCTGATTATTTTACTGGATATTTCAATGGACAGTATTGGCTTTGGTGGATATTTCTGTACTT
GGCCTGCTCCTTTTCTTCAGAGGATTGTGAATTATCTAAAAGTCAGAAACATGTCTGAAAGTATGGCAGCTGCT
CATAGAACAAGGTATTTCTTCTTATTGTAGAGACTGCATCAACCCGACATTCCTTTCTTATACCAATGTGAAAT
TCCAGATCATCTGTAAACCTACAACCTTTAATAGAAGACTACTAATAACAGAAGACAAATTAGTGAAGAAAAGACG
GAGTTTCGAAATTGAATGGCAGGGTGGTTTTTGCTTACAAGCCATTTCTGTTCACTTCTTTAAGTATCTATATTTT
ATTTGTTTTGCACATATGCATATGTGCCATTAAAGATATTTGCATATACTTGATAGAAACCATAAAGTTGTAGC
AGTTAAGTCCAGTCACATTTGGTTAATCAGTGTTGATATAATTGAAAGAGTTGAGTGGATAAACAGTCTTCCAG
CTTGTAATGCCATTGACTTCTGACCTGACATTTAGTATAATAAAAATGAAATTCCTTAACCATGTCAAATGATTT
AGTTTCTGGCTCTTAGACTCATCTGGCAGTTCTACACATGAAACATCTTTTGTATATAAGGTGATTGAAACCT
GCAGTGCTGATTATTAGAAAGGATTTGTGCGATTTTGAACATGATATTTACATTATTTAGGAAAACTCTTC
CTGTAAATAACCATGCATAACTTACTTTCTGCAATGTTTTCTTAGAAATTGTGTCCAGATAGCTTTCACTAATTT
TAAATTAAGTGAATAAATATATATGTGTATATGTATACACATATATATACACACACATATATATTTAGAA
ACGTGAGTGTTAAAGATAGAATTTGTTTTAGGACAAATTTTAAAGAAAATGTGGGAATACCAATGTCTTTATAA
GAAAAATAAATTTGTTTTAAGGGACATACCAGTTTAGGGATTTTTCAGATGGGAAGCTGCATTTTAGGATTGC
CCATCTTAAGAGATCTTGCAGGAAGAGATTGTATTAGATATATATTTATTTCAATTTAAGATAATTTTCAAAGTT
AATTTTCTAAATAAGATAATTTCTCATTGTGTGTTGTCTTTTAAAGGCCAATAAAATATCTTTCAGTATCATGT
AATAATTTTTTAGAGTTTAAATTTGTAAGCTTAGCAAATAAATCTGTACTATGAATAGCTTCTTGCTTTATGA
CTTAGGATTAACCTGTAAAAAACATATCCTGAACCTGAGATATGCAAAATACTCATTTCAGTTATGGAAATGT
GTTGTGGCATATAGGACTGTGGGTCTGTGTGTAGTGAGAGTGTTAGCCACTATTATAACTGGAATTTAAT
TTACATTCATAAACTACTATATTTCCCATCTTGCAATCATTATTTATGCTCATCTGTTTTCTTTCCGTTATAT
CTTTGGTTTTGAATACCAACATTTAAATGATGGTATTTTATCTTTTAACTTAAAAATTATTTAATACAGCTAT
ATGGACCTTATAAAATGATTTCTTATTATTATGACATTACTACTAAAAGGTACATCTAACTATTCAGGGAC
ATTTTCCATTTCCAAAAATAAAATTTATTATGCTTTATAACCTCTTCTGTATTTCTAATTTTTCATTGTCT
TTGATAAATAAAACAGTTTGTGTTTGTCTAATATAGCCTATTTTTGTTTTGTCTCATTACAGTTTACTTTCTGCG
TAGAATTTTTATTGTTATATTAATAATTTTATTGTTGTATTAAGTACCTGTGTACACCCCTTGAAGTAAGACA
GTAGCATGGGGTAAAGAAAAATATTTAGTTAGTTGCCAATTTGGAAGTTAATTAATAAATAACTGTACTAAT
AACATATTCAAACTCATGCTGGATCTCTTCATATTAATTTCTTATAGACCTGTACTTTATTTCTTCAATAATTT
TTAAATGAAATTAAGCTTTGCTACATGGTAATTAATAATTACTAGGAAGCTTAGCTATCAACATCGACTTACT
AAAATTTCAATTTTAGCTTTTATGGTATATGTGCTTGTCTGAAATATGGATACATGTTACTTTTGATCCAGCAT
CAAACTTCATTTTGTGTTTTGACTTTTCCCCCAAATCTGTAAGGTTCAAGTATACATATTACTGAATCCTCTA
TAATTGGCATAATTCATGGTAGCCTTAAATCTCATCATGTAAGCAGGGGAATCAGAATGTTATTTCAAGAAT
TAATGTTCCCTTCAGATATATAAAATCCTGCATACTTCATTTCTGTGAGCTTGAACAGCTGCTGTGTGTTTTG
GGGATGCTTGATCATCTTTGCACTCTGCTTAAAGATTGAAAAATCAAACTCTTGTTAGGGTATCTAAACATTT
TTGAGTGTGAAGTGGGATTGGAAGTTAATACAAAAAATTTCAAATTTTCTATTGTAAATGAATAAGCTAGT
CATGGCTAGGATAATCCATTTTCATGTATTTATGCAATAAAGTGAATTTAAGGCAAAACAACACTTTCTATA
TAGTGATGCAGGACAGATTTTAGAACTTAGATTAAATACAAATCCCATTACATTTGGTTAAATGAATCTCT
GCTTAATGGAATAAATACTAATCTTTAGCCTATTTTGTGCTATAAGATATATTTCAATTTAGACATGCCTTCTA
AGTTGTTACAGATTTTACCTGCTAAACAATATTATTTCCAGTAAACCTCTCCTAACAGGAAAGTGGAGTT
CAAAATATCCAATTGGAGAAAAATTCAGAGTTCTTCATTAATATAATTTTTTTCATCTAGTATGTACTATTTT

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FIGURE 1570B

AAGAAGTGCAAAAAGTAATGATAGTGAATGTGATACCATACTTAACTAAGGTAATATATATCCTTAGTTTGCTCA
AAAGAGTCCTGGTTATTCCTGTTTTCTCAGCTTAATAGTGCCTCATCGTACTCTCAAAAGTGTTCTAATTTGGAG
GATAAGTTATATGATCATCCTGTGTATAATTGTAGACTGTACCAAGAAGCAACTACCTTAGCTCCACTGCCCTTT
GAGGGATGGAAC TGGGGTAAGGGCAGGAGCCAGTTATTATTGCCACAGTGTTTTCTAATGAACCATTGGCCTGT
AGAAGAGGAATAGTATTTTTTTTAATAGTTGTATTTGAATGATTCCAGCTTATCGTAAATACTAAACTGAATGGC
TTTTATATTTTTAACTGCTGTAAATGTTATTTAGCATTATTAGTTGTTTATTATTTAATTCCTTCAAATAGTC
ATATGAAAACATATATTTGATAAAGGTC AATTGTTAGATGATAATGTGCCATT CATTATCATAGGAATGTCCTTG
CCCATATATAAAACATGCTGGCATGTATTTTACTTGTTAATAAAGTTGTATAGATGTGGAAGTGTGAACCTGTGA
TGCATCCTTTTCAAATCAGTTTAAGATTGCGATATTATCATGACTGTGACCTCACTAAACTGTTTATGTGACAA
ACCTTTCAAGATTGGAGATGAAAACAACACTTGTGAAATTAGGTTGGGGTTGCAACATCTTTAACTTCTCAGTT
ATTTGTATGTCAGGAAACAGATTGTGGTTTAATTTAATAAACAATAATATCATCTTTTTGAAAAT

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FIGURE 1571

DRGCRNGGGRGPAATTSSIGVAVGAEHGEDSLSRKPDPEPGRMDHHQPGTGRYQVLLNEEDNSESSAIEQPPTSN
PAPQIVQAVSSAPALETDSSPPPYSSITVEVPTTSDTEVYGEFYVPPPYSVATSLPTYDEAEKAKAAAAMAAAAA
ETSQRIQEEECPPRDDFSDADQLRVGNDGIFMLAFFMAFIFNWLGFCLSFCTINTIAGRYGAICGFGLSLIKWIL
IVRFSDYFTGYFNGQYWLWWIFLVLGLLFFRGFVNYLKVRNMSESMAAAHRTRYFFLL

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FIGURE 1572A

GCCTTATAAGTGGTTTAGTGCTCAGTTGGCTCTAGTAACCAGAGGACACAGAAAGTATCTTTTGGAAAGTTTAGC
CACCTGTGCTTTCTGACTCAGAGTGCATGCAACAGTTAGATCATGCAACAGTTAGATTATGTTTAGGGTTAGGAT
TTTCAAAGAATGGAGGTTGCTGCACTCAGAAAATAATTCAGATCATGTTTATGCATTATTAAGTTGTACTGAATT
CTTTGCAGCTTAATGTGATATATGACTATCTTGAACAAGAGAAAAAACTAGGAGATGTTTCTCCTGAAGAGCTTT
TGGGGTTGGGAACCTATTCTTTTTTAATTGCTGTACTACTTAACATTGTTCTAATTCAGTAGCTTGAGGAACAGGA
ACATTGTTTTCTAGAGCAAGATAATAAAGGAGATGGGCCATACAAATGTTTTCTACTTTGCTGTGACAACATTG
ATTAGGTGTTGTCTAGTACTATAAATGCTTGAGATATAATGAATCCACAGCATTCAAGGTCAGGTCTACTCAAAGT
CTCACATGGAAGTGAGTTCTGCCTTTCTTTGATCGAGGGTCAAAATACAAAGACATTTTGTAGGGCCTAC
AAATTGAATTTAAAACTCACTGCACTGATTCTGAGCTTTTGGTTAGTATTCATGGCTAGAGTGAACATAGC
TTTAGTTTTTGTGTGTAAGTGTTTTCATAAGTTCACTCAAGAAAAATGCAGCTGTTCTGAACCTGGAATTTT
CAGCATTCTTTAGAATTTTAAATGAGTAGAGAGCTCAACTTTTATTCCTAGCATCTGCTTTTGACTCACTTTCTAG
GCAGTGCTTATGAAGAAAAATTAAAGCACAAACATTCTGGCATTCAATCGTTGGCAGATTATCTTCTGATGACAC
AGAATGAAAGGGCATCTCAGCCTCTCTGAACTTGTAATAATCTGTCCCCAGTTCTTCCATCGGTGTAGTTGTTGC
ATTTGAGTGAATACCTCTCTGATTTATGTATTTTATGTCCAGATTCCGCAATTTCTGAAATCCAGATCCAACACAA
GCAGTCTTGCCGTTAGGGCATTTTGAAGCAGATAGTAGAGTAAGAACTTAGTGACTACAGCTTATCTTCTGTAA
CATATGGTTTCAAACATCTTTGCCAAAAGCTAAGCAGTGGTGAAGTGAAAGGGCATATTGCCCAAGGTTACAC
TGAAGCAGCTCATAGCAAGTTAAATATTGTGACAGATTTGAAATCATGTTTGAATTTCATAGTAGGACCAGTAC
AAGAATGTCCTGTAGTTTCTGTTTGTGTTGGTTCTGGCGGCTCAGGCATTTTGGGAACCTGTTGCACAGGGT
GGAGTCAAAACAACCTACATATAAAAAGAGAAAAAGAGAACTTGTCATTTAGCTTTTCATAAGAAATCCCATGG
CAAAGGGTAATAAAAAGGACCTAATCTTAAAAATACAATTTCTAAGCACTTGTAAGAACCAGTGGGTTGGAGCC
TCCCACCTTTGTCCCTCCTTTGAAGTGGATGGGAACCTCAAGGTGCAAAGAACCTGTTTTGGAAGAAAGCTTGGGGC
CATTTACAGCCCCCTGTATTCTCATGATTTTCTCTCAGGAAGCACACACTGTGAATGGCAGACTTTTCACTTTAGCC
CCAGGTGACTTACTAAAAATAGTTGAAAATTATTCACCTAAGAAATAGAATCTCAGCATTGTGTTAAATAAAAAATG
AAAGCTTTTAGAAGGCATGAGATGTTCTATCTTAAATAAAGCATGTTTCTTTCTATAGAGAAATGTATAGTTTG
ACTCTCCAGAAATGTAATCTCATCTTGATGAGAAAACTCTTAAATAGTACCAACATTTTGAACCTTTAAATTATG
TATTTAAAGTGAGTGTTTAAAGAACTGTAGCTGCTTTTACAAGTGGTGCCTATTAAAGTCAGTAATGGCCAT
TATTTGTTCCATTGTGGAAATTAATATGTAAGCTTCTTAATATCATAAACATATTAAAAATCTTCTAAAAATATT
GCTTTTCTTTTAAAGTGACAATTTGACTATTCTTATGATAAGCACATGAGAGTGTCTTACATTTTCCAAAAGCAGG
CTTTAATTGCATAGTTGAGTCTAGGAAAAATAATGTTAAAAAGTGAATATGCCACCATAATTACTTAATTATGTT
AGTAGAAACTACAGAATATTTACCCTGGAAAGAAATATTGGAATGTTATTATAAACTCTTAGATATTTATAT
AATTCAAAAGAATGCATGTTTTCACATTGTGACAGATAAAGATGTATGATTCTAAGGCTTTAAAAATTTATCATA
AAACAGTGGGCAATAGATAAAGGAAATCTGGAGAAATGAAGGTATTTAAAGGGTAGTTTCAAAGCTATATATA
TTTTGAAGGATATATTCTTTATGAACAAATATATTGTAATAATTTATACTAAGGTATCTGGTAAGTGTGGGATT
AATATGGTCGAAAACAAATGTTATGGAGAAGCTGTCCCAAGCAAACCTAAATTACCTGTACTTTTTTCCCATTTCA
AGGGAAGAGGCAACCACATGAAGCAATACTTTTACACATGCCTAAGAACGTTTATTGAAAAATAAATTTTTAA
AAGGCATGTGTTTCTATGCCACCAATACTTTTGAATAATGTGAACCTTACCCAAAACCATTTATCATGTCCAT
TAAGTATATTTGGGTATATAATTAGGAAGATATTTACATGTTCCATCTCCACAGTGGAATACTTATTGAGGCTA
CCAAAGTGTGCCAAGAAATGTAAGTCCTTAGAGTAATTAGAAATGCTGTTTCTCCTCAAAGCATGAGAACTAGC
ATTTTCATTTCTTATTTACTCCCTTTTCTATATCAATGCAATTCACAACCCAATTTTAAATACATCCCTATATCTCA
AGCATTCTATCTTGTACTTTTTTTCAGAAAAATAAACCAAAAAATAATCCTTGGTCTCTCTATCTTCTGACCTTGTA
GCAACAGAAATGTAAAAACAGAAGGGGTCCAATTTTTTACACGTTTTTTTTCTCAAGTAGCCTTTCTGGGGATTTTT
ATTTTCTTAATGAAGTGCCAATCAGCTTTTCAAATGTTTTCTATTCTCAGCATTTCAGGAAGTGATAACGTT
TAGCTAAATGAGTAGAAGTGGAATCCCTTCAACATATTGTTACCTTGCTAGCCTTAGGAAGAAAAACAAGAGCCA
CCTGAAAAATAAATACAGGCTCTTTTCGAGCATCTGCTGAAATACTGTTACAGCAATTTGAAGTTGATGTGGTAGG
AAAGGAAGGTGACTTTTTCTGCAAAAGTCTTTCTAAACATTCACTGTCTTAAGAGATGAGCTTTCTGTTTTTA
TTCCGGTATATTCCACAAGGTGGCAGCTTTTAGAGAAAAACAATCTGATGAAGACTAAAGAGGTACTTCTAAAAG
AGATTTCACTTCAACTTTATTTTCTGCGCATATTTAACTCTTCTAGCACTTGTTTTTGGGATGATTAATAG
TCTCTATAATGTTCTGTAACCTCAATATTTTACTTGTTACCTAGGTTCTGAACAATTGTCTGCAATAAATGTT

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FIGURE 1572B

CTTAAGGATGGATAATACACCCATTTTGATCATTTAAGTAAGAAAGAGGCTAGTCATTTCATTTCAGTCACAGAAAAAA
TTTTTGAAGTACCCAGTTACCTTACTTTTTCTAGATTAAAAACAGGCTTAGTTACTAAAAAGGCAGTCCTCATCTGT
GAACAGGATAGTTTCGTTAGAAGTATAAACTCCTTTAGTGGCCCCAGTTAAAAACACACATACCCTCTCTGCTGC
TTTCAAATTCCTAGCATGGTGGCCTTTCAACATTGATTAAATTTTAAATCCTAATTTAAAGATCAGGTGAGCA
AAATGAGTAGCACATCAGTAATTCAGTAGACAAAACTTTTGTCTGAAAAATTGCTGTATTGAAACAGAGCCCTAA
AATACAAAAGACCAGGTAATTTTAACATTTGTGGAATCACAAATGTAAATTCATAAGAAGCTCTAATTAACAAA
AAAAAGTCTGAAGTATATGAGCATAACAACCTTAGGAGTGTGTCTACATACTTAACTTTTGAAGTTTTTGGCAAC
TTTATATACTTTTTTAAATTTACAAGTCTACTTAAAGACTTCTTATACCCCAAATGATTAAAGTTAATTTTAGAG
GTCACCTTTCTCACAGCAGTGTCACTTGAAATTTAGTAGGGAAGGATATTGCAGTATTTTTCAGTTTCCTTAGCA
CAGCACCACAGAAAGCAGCTTATCTCTTTGAGTGGCAGACACTCGACGGTGCCTGCCAACCTTCTCTCTGAGT
GGCAAGCAGATGAGTCTCAGTAATTCATACTGAACCAAAATGCCACATACACTAGGGGCAGTCAGAACTGGCTG
AGAAATCCCCCGCCTCATTTCGCCCTCTGCTCCAGGAACTAGAGTCCAGTTAAAGCCCCTATGCGAAAGGCCGA
ATTCCACCCCAGGGTTTGTTTATAACAGTGGCCAGTCTGAACCCCATTTGCTCGTGCTCAAACCTTGATTCCCACT
TGAAAGCCTTCCGGGCGCGCTGCCTCGTTGCCCGCCCCCTTTGGCAGGAGAGAGGCAGTGGCGGAGGCCGGGCTG
GGGCCCCGCTCCCACTCAGCTGCCGCTGCCTGAAATTATGTGCGGCCCGCGGGCTGCTTTCCGAGGTGAGAGT
GCCCTGCTGCTGTCTCAGAGGCATCTGTTCTGCAAATCTTAGGAAGAAAAATGTCCTTAGTAGCAAACGGGTGTC
TTCTGTGCATAAAATAAGTACAACACAATTCCTCGAAAGTTTCGGGTAAAAAGAGATGCGGTAGCAGCTGCCCTGTG
TGAAGATGTCTACCCCGCATCTCTCAGGCGCTAAGCTCAGTTTTTGTTTTTGTTTTTGTTTTTTAAAGAAAAGA
TGTATAATTGCAAGGAATTTTTTTTTTATTTTTTATTTTCCATCATTCTATATATGTGATGGTGAAGATATGCCT
GGAAAAGTTTTTGTGTTGAAAAGTTTATTTTCTGCTTCGTCTTCAGTTGGCAAAGCTCTCAATCTTTAGCTTCC
AGTTTCTTTCTCTCTTTTTCTTTGTTAGGTAATTAAGGTATGTAAACAAATTATCTCATGTAGCAGGGGATTT
TCATGTTGAGAGGAATCTTCCGTGTGAGTTGTTTGGTCACACAAATAACCCTTTCTCAATTTTAGGAGTTTGGAT
TGTCAAATGTAGGTTTTTCTCAAAGGGGCATATAACTACATATTGACTGCCAAGAACTATGACTGTAGCACTAA
TCAGCACACATAGAGCCACACAATTATTTAATTTCTAATCTCTGTGGTCCCTAGAAAAATCCGTTGATGTGCT
TAGGTTAAAGTTCTGAAGATACCCGTTGTACCCCTTACTGAAAGTTTCTAATCTTAAAGTTTATGAAATGCAATA
ATATGTATCAGCTAGCAATATTTCTGTGATCACCAACAACCTCTCAGTTTGATCTTAAAGTCTGAATAATAAAACA
AATCCAGCAGTAATACATTTCTTAAACCTCACAGTGCATGATATATCTTTTCATTCTGATCCTGTGTTTGCAA
AATATACACATGTATATCATAGTTTCTCACTTTTATTTCATTGTTTTCTTATTACCTGTAGTAAATATATTAGT
TAGTACATGGAATTTATAGCATCAGCTACCCCGAGAACAGCACCTGACAGCGGGGGATTTTTTTTCAAGTTGT
TCTACATTTGCATAAAATTATTTCTATTATTATTCATGTATGTTATTTATTTCTGAATCACACTAGTCCTGTGAAA
GTACAACCTGAAGGCAGAAAGTGTAGGATTTTGCATCTAATGTTTCATTATCATGGTATTGATGGACCTAAGAAAA
TAAAAAATTAGACTAAGCCCCCAAATAAGCTGCATGCATTTGTAACATGATTAGTAGATTGAATATATAGATGTA
GTATTTTGGGTATCTAGGTGTTTTATCATTATGTAAAGGAATTAAGTAAAGGACTTTGTAGTTGTTTTATTAA
ATATGCATATAGTAGAGTGCAAAAATATAGCAAAAATAAAACTAAAGGTAGAAAAGCATTTTAGATATGCCTTA
ATTTAGAACTGTGCCAGGTGGCCCTCGGAATAGATGCCAGGCAGAGACCAGTGCCTGGGTGGTGCCTCCTCTTG
TCTGCCCTCATGAAGAAGCTTCCCTCACGTGAIGTAGTGCCCTCGTAGGTGTGATGTGGAGTAGTGGGAACAGGC
AGTACTGTTGAGAGGAGAGCAGTGTGAGAGTTTTCTGTAGAAGCAGAAGTGTGAGCTTGTGCCTTGAGGCTTCC
AGAACGTGTGAGATGGAGAAGTCCAAGTTTCCATGCTTCAGGCAACTTAGCTGTGTACAGAAGCAATCCAGTGTG
GTAATAAAAAGCAAGGATTGCCTGTATAATTTATTATAAAATAAAAGGGATTTTAAACAAACAATTTCCCAACA
CCTCAAAAGCTTGTGTCATTTTTTGGTATTTGAGGTTTTTATCTGAAGGTTAAAGGGCAAGTGTTTGGTATAGAA
GAGCAGTATGTGTTAAGAAAAGAAAAATATTGGTTGCGGTAGAGTGCAAATTAGAACTAGAAAGTTTTATACGAT
TATCATTTTGAAGTGTGTTAAAGTAGGTTTTCTAGTAAAATGTATTAGTGTCTTGCATTGCCATAGGGCCTGG
TTAAACCTTTCTCTTAGGTTTCAGGAAGACTGTCACATACAGTAAGCTTTTTTCTTCTGACTTATAATAGAAAA
TGTTTTGAAAGTAAAAAATAAATCTAATTTGGAATTTGACTTGTTAGTCTTGTGTTTGAATCATGGTTC
TAGAAATGTAGAAATTGTGTATATCAGATACTCATCTAGGCTGTGTGAACAGCCCAAGATGACCAACATCCCCA
CACCTCTACATCTCTGTCCCTGTATCTTCTCTTCTACCCTAAAGTGTTCCTGCTACCATCCTGGCTTGTG
CACATGGTGTCTCTCATCTTCTCCACATCATGGACCACAGGTGTGCTGTCTAGGCTGGCCACCACTCCCAAC
TTGACCTAGCCACATTCTATAGATGGTTCCTGATGCTGGGCACAGACTGTGCTCATGGCACCATTAGAAAT

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FIGURE 1572C

GCCTCTAGCATCTTTGTATGCATCTTGATTTTTAAACCAAGTCATTGTACAGAGCATTAGTTTTGGCTGTGGTA
CCAAGAGAAAACTAATCAAGAATATAAACACATTCCAGGCTGCTGTTTTCTCTCCATCTACAGGCCACACITT
TACTGTATTTCTTCATACTTGAAATTCATTCTGCTATTTTCATATCAGGGTACAGACTTATAAGGGTGCATGTT
CTTAAAGGTGCATAATTATTCTTATTCCGTTTGCTTATATTGCTACAGAATGCTCTGTTTTGGTGCTTTGAGTTC
TGCAGACCCAAGAAGCAGTGTGGAAATTCAGTGCCTGGGACACAGTCTTATAAGAATGTTGGCAGGTGACTTTGT
ATCAGATGTTGCTTCTCTTTTCTCTGTACACAGATTGAGAGTTACCACAGTGGCCTGTGCGGGTCCACCCCTGTGGG
TGCAGCACAGCTCTCTGAAAGCAAGAACCTTCCTACCTATTCTAACGTTTTTGCCCTCTAAGAAAAATGGCCTCA
GGTATGGTATAGACATAGCAAGAGGGGAAGGGCTGTCTCACTCTAGCAACCATCCCTCCATTACACACAGAAAGC
CCTCTTGAAGCAAAAGAAGAAGAAAGAAAGCTTATCTCTAAGGCTACTGTCTCAGAATGCTCTGAGCTGA
ATGCTCTTGCTCCTTTCCCAAGAGGCAGATGAAAATATAGCCAGTTTATCTATAACCCTTCCTATCTGAGGAGGAG
AATAGAAAAGTAGGGTAAATATGTAACGTAAATATGTCAATTCAAGGACCACCAAACTTTAAGTACCCTATCAT
TAAAAATCTGGTTTTTAAAGTAGCTCAAGTAAGGGATGCTTTGTGACCCAGGGTTTCTGAAGTCAGATAGCCATT
CTTACCTGCCCCTTACTCTGACTTATTGGGAAAGGGAGAACTGCAGTGGTGTTTCTGTTGCAGTGGCAAAGGTAA
CATGTCAGAAAATTCAGAGGGTTGCATACCAATAATCCTTTGGAAACTGGATGTCTTACTGGGTGCTAGAATGAA
AATGTAGGTATTTATTGTCAGATGATGAAGTTCATTGTTTTTTTCAAATTTGGTGTGAAATATCACTGTCCAAT
GTGTTCACTTATGTGAAAGCTAAATTGAATGAGGCAAAAAGAGCAAATAGTTTGTATATTGTAATACCTTTTGT
ATTTCTTACAATAAAAAATATTGGTAGCAAATAAAAAATAAAAAACAATAACTTTAACTGCTTTCTGGAGATGA
ATTACTCTCCTGGCTATTTTCTTTTTTACTTTAATGTAAATGAGTATAACTGTAGTGAGTAAATTCATTAAAT
TCCAAGTTTTAGCAGAAAAA

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FIGURE 1573

PYKWFS AQLALVTRGHRKYLLESLATCAF

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FIGURE 1574

GCTCGCCGGTCTCGGCACGCCGCCGTTTCGCCCCCTGCGCTGTCCGCCCTTCCCCTAGCGTTACTTCCGGTCCCT
CGCTGAGGGGGTTTCGTGCGGCTCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCA
GCTGGCCTATGCTCTGGCGCGGGGCTTCACGGCCGAGGCATCCTGTGGCTCACAAGATAATAGCCAGCTCCCC
AGAAATGAACCTGCCCACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGT
GAAGCACAGCGACGTCTGTTTCTGGCTGTGAAGCCACATATCATCCCCCTTCATCCTGGATGAGATTGGGGCCGA
CGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTCAACATCAGCTCTGTGGAGAAGAAGCTGATGGC
ATTCCAGCCAGCCCCAAAGTGATTGCTGCATGACCAACACACCTGTGGTAGTGAGGAAGGCGCTACAGTGTA
CGCCACGGGCACCCATGCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCAC
TGAGGTGGAAGAGGACCTCATCGATGCCGTACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTATGGCTCT
GGACGCATTGGCTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACCTCGGGGCCAGGCTTT
GCTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTGG
GGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGC
CTCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGAC
CCTCTTAGACAGAGTGAAGCTGGAATCCCCACAGTCTCCACACTGACCCCCCTCAGCCCAGGGAAGCTCCTCAC
AAGAAGCCTGGCCCTGGGAGGCAAGAAGGACTTAAGGCAGCATCTGTCCCCCTCTGTGATTCAGAGCCCTTAGTTGA
GAGCCCCCTGCCGCCCCCTGCCACCCCCCTGCCCCGCTCCCACCATTGCCCTCCTCAGCTGTGCAAGGAGAAAGCA
TGCTTAGGAAGTTTTAGGTCCTTGATATAAACCTCCTTAAATCTGTTAGACCAAGCAATGCGAGCTTCCTCT
CCTGTCCCATGTTGGAAGTTGCTCTGAAGGGGTGGTAGATGCTGGAAGCCAGACACAACCCTGCGTACGCTGCTC
AGTTGGTGGAGACTGGGGCTGGGACTGGAGTCAGCCAGCTGGGAGGAGGGCTGGGGAGGATCTGCAGCTGAAG
CCCAGGCAGGGTTGGTGTGATGCCAAGGCAAAGTGGTGAGGAGAAAACAGGAAACGGGCTTTCTCTGAATTGGT
AAATGGGAAAGAAGTGAGCAACTTAAGATTGTCACAATTAATCACAAGTGTACAGGATTAGACTGGGTTTATATT
TAACCTCTTGCTTCATAGGTGTACCATTAAAGAGTGTATTTAATGCTAAGTTTAACTGCTTTAATAAAGTTTAT
TTTTAAATATCAAAAAAAAAAAAAA

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FIGURE 1575

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLPTVSALRKMGVNLTRSNETVKHSDVFLAVKPHII
PFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQAPKVICMTNTPVVVQEGATVYATGTHALVEDGQLLE
QLMSSVGFCTEVEEDLIDAVTGLSGSGPAYAFMALDALADGGVKMGLPRRLAIQLGAQALLGAAKMLLDSEQHPC
QLKDNVCSPGGATIHALHFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPAALKKTLDRVKLESPTVSTL
TPSSPGKLLTRSLALGGKKD

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FIGURE 1576

GGAGTTGCGCGGGCTGACGCGCCACTATGTAGCGGGTTTCGGGCGGGCCACGCGTGCGGGACAGGAACCCAACCC
CAGCCGACCTTGAGCTCCAGGAGTTCGTCTCTTACGTCTGCGGAAGTGCAGCTGCCTCAGTTCCTAGCGCAGGTT
GACAACTACAGGCACAAGCCATTGAAGCTGGAATGTCCTGTTGCTGGTATTTCAATTGACTTAAGCCAACCTATCC
CTTCAGTTACAATAGGAAAGTGCCCTCTAATAAGGCCAAATATGCGTACTAACTTGTAGCAACCACGTGTCCGTGC
AGTGCCACAGGAGCTAGAGCAGTGACAATGCTGGTGGCAACAGGGCAGTGTAGCAGGTGCTTCATGTTACCTTT
TCAACCTTTTCATTTAATTGTCACAACCTCGGAGGTGGATTCTGTTAGGGACAGGCTGCCCCAGGACCACTCCGCC
CCCGCTAACTCAATGCAGCTGACCCTTACCCTGAATACTCTGCAGCTGCATTCTGAACCGTTATCTAGGCGCTA
TAGCAAGGTCACCAGACTTGCTACACCGAAGCCCTCTGGGTGGCACGGGGGAGGTCATGAGAAACGTGGATTACA
CCCCCTTGTAATTCCTATTTTCACAAGATAATATATTGTAAGCCGGTCATGAGATTATATGTGGTAAAGTTAAT
TGAATAACAACCCAGGGTCTCTCTCCCCATATAAACCCCTCATTTTGTAAAGCTCAGGGCTGCCACCTCCGACT
GGTGAGAAGCCTGGCAGGTTAATAAACTTACTTGGCCTGAC

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FIGURE 1577

GGGGCGGAGAGAGGCGAGCACCGGGAAGGGGAGCGTGGGGCCGCTGGAATGGGTGAATTTAAGGTCCATCGAGTA
CGTTTTCTTTAATTATGTTCCATCAGGAATCCGCTGTGTGGCTTACAATAACCAGTCAAACAGATTGGCTGTTTCA
CGAACAGATGGCACTGTGGAAATTTATAACTTGTGAGCAAACTACTTTCAGGAGAAATTTTCCAGGTCATGAG
TCTCGGGCTACAGAAGCTTTGTGCTGGGCAGAAAGGACAGCGACTCTTTAGTGCTGGGCTCAATGGCGAGATTATG
GAGTATGATTTACAGGCGTTAAACATCAAGTATGCTATGGATGCCCTTTGGAGGACCTATTTGGAGCATGGCTGCC
AGCCCCAGTGGCTCTCAACTTTTGGTTGGTTGTGAAGATGGATCTGTGAACTATTTCAAATTACCCAGACAAA
ATCCAGTTTGAAGAAATTTTGATCGGCAGAAAAGTCGCATCCTGAGTCTCAGCTGGCATCCCTCTGGTACCCAC
ATTGCAGCTGGTTCCATAGACTACATTAGTGTGTTTGTGATGTCAAATCAGGCAGCGCTGTTTATAAGATGATTGTG
GACAGGCAGTATATGGGCGTGTCTAAGCGGAAGTGCATCGTGTGGGGTGTGCGCTTCTGTCCGATGGCACTATC
ATAAGTGTGGACTCTGCTGGGAAGGTGCAGTTCTGGGACTCAGCCACTGGGACGCTTGTGAAGAGCCATCTCATC
GCTAATGCTGACGTGCAGTCCATTGCTGTAGCTGACCAAGAAGACAGTTTCGTGGTGGGCACAGCCGAGGGAACA
GTCTTCCATTTTTCAGCTGGTCCCTGTGACATCTAACAGCAGTGAGAAGCAGTGGGTGGGACAAAACCGTTCCAG
CATCACACTCATGACATGCGCACTGTGGCCACAGCCCAACAGCGCTGATATCTGGAGGCACTGACACCCACTTA
GTCTTTTCGTCCTCTCATGAGAAAGGTGGAAGTAAAGAATTACGATGCCGCTCTCCGAAAAATCACCTTTCCCCAC
CGATGTCTCATCTCCTGTTCTAAAAAGAGGCAGCTTCTCCTCTTCCAGTTTGCTCATCACTTAGAACTTTGGCGA
CTGGGATCCACAGTTGCAACAGGCAAGAATGGGGATACTCTTCCACTCTCTAAAAATGCAGATCATTTACTGCAC
CTAAAGACAAAGGGTCCCTGAGAACATTATCTGTAGCTGTATCTCCCATGTGGAAGTTGGATAGCCTATTCTACA
GTTTTCTCGGTTTTTCTCTATCGGCTGAATTATGAACATGACAACATAAGCCTCAAAGGGTTTCCAAATGCCA
GCATTCCCTTCGCTCTGCCCTTCAGATTTTGTCTTCTGAAGATTCAACAAAGCTCTTTGTAGCATCAAATCAAGGA
GCTCTGCATATTGTTTCAGCTGTCAGGAGGAAGCTTCAAGCACCTGCATGCTTTCCAGCCTCAGTCAGGAACAGTG
GAGGCCATGTGTCTTTTGGCAGTCAGTCCAGATGGGAATTGGCTAGCTGCATCAGGTACCAGTGTGGAGTCCAT
GTCTACAACGTAAAAACAGCTAAAGCTTCACTGCACGGTGCCCTGCTTACAATTTCCAGTGACTGCTATGGCTATT
GCCCCAATACCAACAACCTTGTATCGCTCATTCGGACCAGCAGGTATTTGAGTACAGCATCCCAGACAAACAG
TATACAGATTGGAGCCGGACTGTCCAGAAGCAGGGCTTTACCACCTTTGGCTCCAAAGGGATACTCCTATCACA
CACATCAGTTTTTCATCCCAAGAGACCGATGCACATCCTTCTCCATGATGCCTACATGTTCTGCATCATTGACAAG
TCATTGCCCCTTCCAAATGACAAAACCTTACTCTACAATCCATTTCTCCACGAATGAATCAGATGTCATCCGG
AGGCGCACAGCTCATGCTTTTAAAAATTTCTAAGATATATAAGCCTCTACTCTTCATGGATCTTTTGGATGAAAGA
ACACTCGTGGCAGTAGAACGGCTCTGGATGACATCATTGCTCAGCTCCCACCACCCATTAAAAAGAAGAAATTT
GGAACCTAAACAGGGCACTGTCTGTGCTCCTTGAAGTGTCTACCCTGTTGCTTTTACAAATCATGGTAAT
AAAACAAGTATTCTTG

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FIGURE 1578

MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHESRATEALCWAEGQRLF
SAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGCEDGSVKLFQITPDKIQFERNFDRQKSRLS
LSWHPSGTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIVWGVAFSLSDGTIISVDSAGKVQFWD SAT
GTLVKSHLIANADVQSIAVADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDMRTVAHSPTAL
ISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLLQFAHHELEWRLGSTVATGKNGDTLPL
SKNADHLLHLKTKGPENIICSCISPCGSWIAYSTVSRFFLYRLNYEHDNISLKRVS KMPAFLRSALQILFSEDST
KLFVASNQALHIVQLSGGSFKHLHAFQPQSGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAY
NFPVTAMAIAPNTNNLVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHD
AYMFCIIDKSLPLPNDKTL LYNFPPTNESDVIRRRTAHAFKISKIYKPLLMDLLDERTLVAVERPLDDIIAQL
PPPIKKKKFGT

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FIGURE 1579

GCGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCCGCCGGGCCCC
AGATCAGGCCGCGAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGG
TCCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCGTCTA
TATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTCGACAATGATCCAATTCTGGT
ACAGCAGTTGCGCCCGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCCT
TCTCCAGACCCTCTGCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCCTCTT
GCATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCCAGGCATCGAGACCTTGTTCCAGCAGCT
TGCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGA
CCCCATGGCTTTCATCTCCTACCGCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATAT
TTCATGCTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTA
TAACGCGGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAA
GACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGC
GGCTTTCAAACAGCGGCCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAA
GCAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCT
CAAACCTCAGTGCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCTCAATAAAGTAC
ATCCCAGACGCCACAAAAA

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FIGURE 1580

TCATCATCCAGAGCAGCCAGTGTCCGGGAGGCAGAAGATGCCCCACTCCAGCCTGCATCCATCCCATCCCGTGTCC
CAGGGGTACAGGGGCCCAGAAGGCAGCCTTGTTCTGCTGAGTGCCTGCCTGGTGACCCTTTGGGGGCTAGGAGA
GCCACCAGAGCACACTCTCCGGTACCTGGTCCTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTAAACGGGGT
CTGCAGCCTGGCTGAGGAGCTGCGCCACATCCACTCCAGGTACCGGGGCAGCTACTGGAGGACTGTGCGGGCCTG
CCTGGGCTGCCCCCTCCGCCGTGGGGCCCTGTTGCTGCTGTCCATCTATTTCTACTACTCCCTCCCAAATGCGGT
CGGCCCCGCCCTTCACTTGATGCTTGCCCTCCTGGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCAAGGG
CCTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAAGGGAATTTCAACGTGGCCCATGGGCTGGCATGGTCATA
TTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCCGGATTGGAACCTTACAATCAGCATTACAACAA
CCTGCTACGGGGTGCAGTGAGCCAGCGGCTGTATATTCTCCTCCCATTTGGACTGTGGGGTGCCTGATAACCTGAG
TATGGCTGACCCCAACATTTCGCTTCTTGATAAACTGCCCCAGCAGACCGGTGACCGTGCTGGCATCAAGGATCG
GGTTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCTGTGTCTTGAGTACGCCAC
CCCCTTGCAGACTTTGTTTGCCATGTCACAATACAGTCAAGCTGGCTTTAGCCGGGAGGATAGGCTTGAGCAGGC
CAAACCTTCTGCGGACACTTGAGGACATCCTGGCAGATGCCCTGAGTCTCAGAACAACCTGCCGCCTCATTGC
CTACCAGGAACCTGCAGATGACAGCAGCTTCTCGCTGTCCAGGAGGTTCTCCGGCACCTGCGGCAGGAGGAAAA
GGAAGAGGTTACCGTGGGCAGCTTGAAGACCTCAGCGGTGCCAGTACCTCCACGATGTCCCAAGAGCCTGAGCT
CCTCCTCAGTGGAATGGGAAAGCCCCCTCCCTCTCCGCACGGATTTCTCTTGAGACCCAGGGTCACCAGGCCAGAG
CCTCCAGTGGTCTCCAAGCCTCTGGACTGGGGGCTCTCTTCAAGTGGCTGAATGTCCAGCAGAGCTATTTCCCTCC
ACAGGGGGCCTTGCAAGGAAGGGTCCAGGACTTGACATCTTAAGATGCGTCTTGTCCCTTGGGCCAGTCATTTCC
CCCTCTCTGAGCCTCGGTGTCTTCAACCTGTGAAATGGGATCATAATCACTGCCTTACCTCCCTCACGGTTGTTG
TGAGGACTGAGTGTGTGGAAGTTTTTCATAAACTTTGGATGCTAGTGTACTTAAAAAAAAAAAAA

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FIGURE 1581

MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTWGLGEPPEHTLRYLVLHLASLQLGLLLNGVCSLAEELRHIHS
RYRGSYWRTVRACLGCP LRRGALLLSIYFYYSLPNAVGPFFT WMLALLGLSQALNILLGLKGLAPAEISAVCEK
GNFNVAHGLAWSYYIGYLRILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKL
PQQTGDRAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLEDILA
DAPESQNNCRLIAYQEPADDSSFSLSQEVLRLRQEEKEEVTVGSLKTSAPVSTSTMSQEPPELLLSGMGKPLPLR
TDFS

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FIGURE 1582A

AACCATAGAACATGGGAATAGGTTTTATTTTTCATCTCAAGAACATTTAAGTTGGGTGAAGAAATTCAGCTTTTGT
TGTTAGAATCTGACAGGCTTCAAACACTTGTGATGGAGGGTGTGTGTCATATCAAAGTCCACCTAGTAAAGTTT
TAGGTGACCAGTGACTTTGTCAATTAGGTCTGCTGGTCTGGCCCAATCCCTAGGACAGTTTGAGAGCCTGGTGC
AATCTGAGTACGTCCAGCATCTTGAATTAACTTACAGTCAGTCCCAGCATTTTTGCATGGGCCAATAATGCAAT
CAGGGTTTTCTTCATCAGGAGCTTTGACCACCACCTTGGGCTGGCCACAGTATCCCATTTGTTTGAGCATTTCAGG
ATTTCTTCTTTGAATCTGCTTGTAGGCTGAAACAGCAGCATGAGAGCACTGGGCAGCCACTTTCCCTTTTCCCAT
CTTTAAGTCATTTCGAACCACAAGAATCATCTTGTACTCCCCGCTGTCTCCCAAGATGCTTGTCTCACTTTTCAGT
ATCTGTGTGTCTTGTCTGCTTGTCTTTTGGGGAGCATCCCAAAGCATACTCGAAGGCTCCAGCCCCAGGCACA
TGCCACAAGCAACTCCAACAGCCAAGCCGAGTGTACTGGGATGAGCCAAATATTCATAACCAAGGATTTGGAGG
GCATCTACAGTACCTCCTTTCCCTCACTCGCGCCTTCCCTTCTTCTGGGCAGCGAACACGTTTCTATCGCGTGAGC
TACCTCTTCCGGGGTTTCTGGGTGACAAGTTCCGGATCAAGAATCACAAGCGAGCAGTCATTCTTCTCTTGCC
ACACCCACAGGGCCCGCACTAAGAGCCTAACTGAAATCCCGCGAGGATCAACCGAGCTCGCCGAAAGGAGGGAGG
AACGTATCCCTTCTGGAGGCTGTCTCAGGGGGCAGAGGGACCGGACCGGAAGTGACGTGAGCGGGTTCCGGTGT
CTGGAGCCCAGCGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCGGGGT
CGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAGAAATTTGTGACCAGAGCGTGATG
AATGAACAAGGAACATCATAATGGAATTTACAGACCCCTCTTCAGTGAATGAAAGAAAGAGGAGGGAGCGGGA
AGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAATTTTTCTCTGGAATCCTTGTAAT
CTTGAAGGAATGGACCTCAAAATTTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTTGTCTGTCT
TATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTGTATGC
CTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGAACAGGGCTGCACACCTTCTGCTTTATCTGGG
TCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACACCACCTATCCTGA
TCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAGTTAGGAT
TGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTATGGCCAGAGCAGCTCGCCT
CTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCACAAGA
CTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAACCTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCTGTGC
TTCAATCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCTTCTT
TGGTGCAACCCCTAATTGGAAGCAATAATAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCAGCAA
GCACATAGTGGGCTCAACGGCAGAAGCTTACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACCTGGTT
GGAGTACCTGGAGGCTCAACGGCAGAAGCTTACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACCTGGTT
GTCTGGATGTTTTGAAAAGTTGGTCTGTTGTCTGTTGTTACTTTCATCTATCTATCATTAACTCCATGGCACA
AAGTTATGCCAAACGAATCCAGCAGCGTTGAACTCAGAGGAGAAAACCTAAATAGTAGAGAAAGTTTTAACTG
CAGAAAATGGAGTGGATGGGTTCTGCCTTAAATTTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCTTTTCCAAC
CTGTATCAATTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTGCAGTACATACTTTTCTCTCTG
TGCTAAGGTAAAGGTATCCACCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTACGACGCA
AACTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAGGCCACATGATACAATTAGAGAATTCCCACCGCA
CAAAAAAGTTTCTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTACAAAATGATTGCTTTGTTTTCTTAA
GTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATATTCC
ATCCTGCCCAACCTTCTCTCTCCCATCTCAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGGAAAT
TGATCTTTAAATTTTGGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTTTATT
CTGIGTATTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTTAATCATTTCAAATTTGTGTCCGTTTT
CTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCTAATCCACCTACAACAAGA
ATTTCTTAAGCTTTCTTTTATTGTCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGGCTGC
TGCATACGTCTAAATGGCACCTCTGGGATTGGCTACCTGGGGATTTCTGGTTTGTGAAAACAGGAGAGGAGAA
ATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCGTATC
TGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCAGTTTTCTTGCCGT
TCTGTAAGTGTTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTGATTGAACTTGTTCAITTTGTTTTG
CTTGGGAGGAAAATAACAATTTTACTTTTTTCTTTAGGAGCATTATGAGCATTATGTCAGAATAGAATAGAAT
TGGGGTTCGATCTTAACAGGCCAGAAATGCCTGGGTTTTTTTGGTTTGTTTTTGTTTTTATCAAAATC

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FIGURE 1582B

CTGCCTGACTGTCTGCTTGTGTTTGCCTACCATCGTGACATCTCCATGGCTGTACCACCTTGTGCGGTAGCTTATC
AGACTGATGTTGACTGTTGAATCTCATGGCAACACCAGTCGATGGGCTGTCTGACATTTTGGTATCTTTCATCTG
ACCATCCATATCCAATGTTCTCATTTAAACATTACCCAGCATCATTGTTTATAATCAGAACTCTGGTCCTTCTG
TCTGGTGGCACTTAGAGTCTTTTGTGCCATAATGCAGCAGTATGGAGGGAGGATTTTATGGAGAAATGGGGATAG
TCTTCATGACCACAAATAAATAAAGGAAAATAAGCTGCATTGTGGGTTTTGAAAAGGTTATTATACTTCTTAAC
AATTCTTTTTTTCAGGGACTTTTCTAGCTGTATGACTGTTACTTGACCTTCTTTGAAAAGCATTCCCAAAATGCT
CTATTTTAGATAGATTAAACATTAAACCAACATAATTTTTTTTAGATCGAGTCAGCATAAATTTCTAAGTCAGCCTC
TAGTCGTGGTTCATCTCTTTCACCTGCATTTTATTGGTGTTTGTCTGAAGAAAGGAAAGAGGAAAGCAAATACG
AATTGTACTATTTGTACCAAATCTTTGGGATTCATTGGCAAATAATTCAGTGTGGTGTATTATTAAATAGAAAA
AAAAAATTTTGTTCCTAGGTTGAAGGTCTAATTGATACGTTTGACTTATGATGACCATTTATGCACTTTCAAAT
GAATTTGCTTTCAAAATAAATGAAGAGCAGCTGTCCTTCTTTCCTCTTTTAAGTGTTTCAGCTGTGGCATGCTCAG
AGGTTTCCTGCTGGATTCCAGCTGGAGCGGTGTGATACCTTCTTTTTCAGCTGTTTCGTGCCTTCCTTTCTGTAT
CCACCAAAGTGGAGACAAATACATGATCTCAAAGATACACAGTACCTACTTAATTCCAGCTGATGGGAGACCAAA
GAATTTGCAAGTGGATGGTTTGGTATCACTGTAAATAAAAAGAGGGCCTGGGAATTCTTGCGATTCCATCTCTAC
TTTGTATAAGTCTCATTTTGTGCCTTACACATCTGCAGTATTTATCATGTTCCAACCTGGTGACTGTGAGGCAGT
GCAATACATCAGCAGTTTATCACCGAAGAGCTGAGGAATACCTCCCTTAAAACAGACAATGTC

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FIGURE 1583

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGGFGLACASIPNPLFDLAGITCGHFLVFFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEKTK

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FIGURE 1584A

TGCAACGGAACTTTTAGCTCCACGAACAGAAAAGCAAGAGCAAAAACCTCAGTTAAATGCGTTCTTCCTCCATCT
TTGCCTAGTCCAAAAGGAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAG
TTTGCTTTTTACCTGTTTTTCTCTAGAACAGCCAGGTGGATTACATGATCCAATTTTTTAATTGTCTTCTATG
TCCCACTCCGAATAACCCGGATGCCCCAGCACAAATCAGAGAGATCGTTTTTTTTAAAAAAATTTTCAGCCTCCAA
AGGTAGGAGGGGAGTGTTAGGGGAGAAAGTACTTTAATTAAAAATCAATAACTCGAGGTTTTTGGGATACGGTTT
GCCATTTCTAATTAAGAAATGGGTTTGACAGTCCCTTGTACACACTGCTATGCAAACCCCAAAGGGTTGGCGG
CTGTCCGGGCGATGACACTCCGGTCCCTGCGAGACCCCGGGCCAGCCAGGCCCTCCGCGCCGCGCCTCTGGGG
TCCGTCCCCGGAAGCAAGGCTCGCGCAGACCTCTCGCTTCTCTCGGCTCTGTCTCCTGCGCTCAGCTCTGCTCGG
GGCCGGCCGCTCAGGCTCGCGCCACCAGGTGCTTGCAAATACCTTTTCCCTCCCCGGGGCCCCAGCGCGCGGC
CACCTCCCAGCCTCCCCCTCCACCTGGCAGCGGGGCCCTTTCCCGGCTCAGGAACAGCAGCAGCCGGGGC
GCGCCGCGCAGGAAGCGAGGCCCATGTTGCTGCTGTTCCCTGGCGCGCCTCCCCGCCCTCCGGGGCCGCCACGGC
TCTTCCGCGCTCCCCGGGCACCCCCCTCCGCGCCTGCGCTGTGCCCCACGGGGCGGGGCTCAGATTCTGTGTCAGC
GGCGGCGGCGGTGGCGGCGACCGTCAGTTTTCGCTGAGGAGAAACACGAAACGGACCCCTTTGGCTCTCCCCCTTC
CCCTTCCCCGCTCTGAACCCCTCTCTGGTCACCGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATC
GTTTCTCGGTCTCTCGGCCAGTGGAAGTCACTACCCTCGAGGAGGAGCGCGCAGCCCTCGCGTCTCGCCG
CCCCCGGTTCCGGTGCCCGGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCCGCTCCCCCTCCGCTGCCCTCG
GGCCGGGCTGGGTGAGCTGCGATGCCCTCGGACTTCATCTCATTGCTCAGCGCGGACCTAGACCTGGAATCGCC
CAAGTCCCTCTACTCGCGAGATTCTCTGAAGTTACACCATCACAGAATTTTCATAGAGCTGGACTATTGGAAGA
ATCTGTCTATGATCTTCTCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCTGTAGCATCAATGAGTCA
GACAAGCGGTGGTGAGGCAGGCTCGCCTCTCCAGCTGTTGTTGCTGCTGGATTTCCTCTGAAGCAGGGAGTGT
CTGCATTAAAAATGACCTGTAGTTCTCTGCTTCATAGATGCTTCTTCAGCTCCCTCTCTCTCCATGGGCGGT
GCTTGACGCTCCTTTACCACCTCTTCCAGCCCTACCATTTATTCTACCTCAGTCACCGACAGCAAGGCTATGCAA
GTGGAGAGCTGCTCCTCAGCCGTGGGGGTAAGTAACAGAGGGGTAAGTGAAAAGCAGTTAACAGTAACACAGTT
CAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGTACATCTCACCACCACCTGAGGACTTGCTGGATAAC
AGTCGGATGTCCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATTCC
CCCTCCAACCTCAGTAACATGAGCACAGTTCCTACAATGATAACACTGAGGTACCTCGTAAATCACGAAAACGA
AATCCAAAGCAGAGGCCGGGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGT
GCCAAAGCACCTCACTATGTGCTTCTCAGCTTACCACGGACAACAAAGGCAACTCAAAGCGGGAATGGAACA
TTGGAAGAACCAAGAAAGAACTGGAGTAAAGAAGAGCCCTATGTTGTGTGGACAATATCTGTAAAGTGAGGGA
AAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCGAGCTCGGTACCTGACTGAGGGCAGCCGTGGCTCA
GTGAAAGATAGAAACACAGCAAGGCTTTCCTACAGTAAAGCTGGAAGGCCATAATGAACCTGTAGTGTGCAAGTG
TTGTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTTATCAGGCCTGCAGAGTAACTGGACGAAATACA
ACTCCTTGCAAAGAGTGACATTGAAGGCACTACTGTTATAGAAGTCGGCCTTGATCCTAGCAACAACATGACA
CTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGATGTGGAAGCCAGAATAGGAATTGCTGGTTCC
AAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTTCAGTTAATATCATGAGGAAAGATGGCTCCACTTTGACACTG
CAAACACCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTGCCAGAAATCTTAAAGAAAAGCTTGATAGC
TGTTCACTGAAAGGAGAAGAAGTGTGTTTTAATCGGCAAGAATTTCTGAAAGGAACTAAAGTTATTTTCCAA
GAAATGTTTTCTGATGAAAACCTTTGGAAGTCAGAAGCTGAAATTGATATGGAATATTTTCATCAGAATCATCTT
ATTGTGAAGGTTCCCTATCATGACCAACATATAACTTTGCCTGTGTGCTAGTGGGAATATATGTAGTGACAAAT
GCTGGAAGATCTCATGATGTTCAACCATTCACTTACACTCCAGACCCAGCAGCAGCTGGTGCTTTGAATGTAAAT
GTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAAGAGGCCATGAAAGCAATGAAACTACTGGA
TGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACTCCACTCATACCAAGCAGTATGATTAAGAGT
GAAGATGTTACTCCAATGGAGGTAACAGCAGAAAAAGATCTTCCACTATTTTAAAGACTACAAAGTCTGTTGGA
TCAACTCAGCAAAACATTAGAAAAATCTCAAACATAGCAGGAAATGGCTCTTTTTCATCACCATCATCTTCCCAC
CTACCTTCTGAAAATGAAAAACAGCAGCAGATTACGCCAAGGCATACAACCCAGAGACCTGACAACATTTCAA
ACCCAGGACATCTCACAGCCTGGTACTTTTCCAGCAGTTTCTGCTTCTAGTCAGCTGCCAACAGCGATGCACTA
TTGAGCAGGCTACACAGTTTCAGACAAGAGAACTCAGTCTAGAGAGATATTACAGTCAGATGGTACAGTGGTT
AATTTGTCACACTGACTGAGGCATCACAACAACAGCAGCAGTCAACCTACAAGAACAAGCACAGACTTTACAG

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FIGURE 1584B

CAGCAGATTTTCATCAAATATTTTTCCATCACCAAATAGTGTGAGTCAGCTTCAGAATACTATTTCAGCAGCTGCAA
GCAGGGAGTTTCACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGTGTGACTTGGTCCAACAAGTTTTAGAGGCA
CAGCAGCAGTTATCTTCAGTTTTATTTCTGCTCCAGATGGTAATGAGAATGTTCAAGAGCAGCTTAGTGCAGAT
ATTTTTCAACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGAATGTTTTCTCAACAGAGCCAAACAGTCCAT
ACCAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTTCATCCACAGTCTGAAAACACGTTATCTAATCAA
CAGCAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCCGCAATGGTGATGGAGATGCAACAGAGTATC
TGCCAGGCAGCTGCCAGATTTCAGTCAGAGTTATTCCTTCAACTGCTTCAGCAAATGGAACCTTCAGCAATCG
CCAGTTTACCAGCAGACTTCTCAGATGATGAGTGCATTGTCTACCAATGAGGATATGCAAATGCAGTGTGAATTG
TTTTCTTCTCCTCCTGCAGTTTCTGGAAATGAACTTCTACAACACCACAGCAGGTTGCAACCCCTGGCACT
ACCATGTTTCAGACATCAAGTTTCAGGAGATGGAGAAGAACTGGAACACAAGCAAAACAGATTTCAGAACAGTGTC
TTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCTCAAGTTAACCTTTTTTCATCCACAAAAGT
ATGATGAGTGTTCAGAATAGTGGTACCCAACAACAAGGTAATGGTTTATTCCAGCAAGGGAATGAGATGATGTCA
CTTCAATCTGGAATTTTTTGCAGCAGTCTTCTCATTACAGGCCCAACTTTTTTCATCCTCAAAATCCTATTGCC
GATGCTCAGAACCTTTCCAGGAACTCAAGGTTCTCTTTTCATAGTCCAAATCCTATTGTCCACAGTCAGACT
TCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACTCTCAAAGTACCATTGTGTGTGTACAGGGCTCT
TCAGTTCTCAAGACCAGCAGTCAACCAACATATTTCTTCCAGAGTCCCATGAATAATCTTCAGACTAACACA
GTAGCCCAAGAAGCATTTTTTGCAGCACCAGCAACTCAATTTCTCCACTTCAGTCAACATCAAACAGTGAACACAA
GCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCTATGCTTTCCCAAGAACAGGCACAACCCCG
CAGCAGGGTTTTATTTACGCCTCAGGTGGCCCTGGGCTCCCTTCCACCTAATCCAATGCCTCAAAGCCAACAGGA
ACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAAGTCTCCATCCAGGAACAGCAGCAGCAGCAG
CAACAGCAGCAGCAACAGCAGCAGCAACAACAACAGAGCATTATTCAGTAATCAGAATACCATGGCTACAATG
GCGTCTGCAAAGCAACCACCACCAACATGATATTCACCCAAATCAAAATCCAATGGCTAATCAGGAGCAACAG
AACCAGTCAATTTTTACCAACAAGTAACATGGCCCAATGAATCAAGAGCAACAGCCCATGCAATTTTCAGAGT
CAGTCCACAGTTTTCTCACTTCAGAACCCAGGTCTACCCAGTCGGAATCATCACAGACCCCTTGTTCCATAGC
TCTCCTCAGATTTCAGTTGGTACAAGGGTCACCTAGTTTCTCAAGAGCAGCAAGTAAGTCTCTTCTTATCTCCAGCA
TCCATGTCTGCCTTGCAGACCAGTATAAATCAACAAGATATGCAACAGTCTCCTCTTTATTTCCCTCAGAACAA
ATGCCTGGAATTCAGGAGCCACATCTTCGCCTCAACCACAGGCTACTTTATTTACAACACAGCAGGAGGCACA
ATGAACCAACTGAGAATTTCTCCTGGCTCATCTCAGCAGACATCAGGAATGTTCTTATTTGGCATTCAAATAAC
TGTAAGCAGCTTTTTAACCTCTGGACCAGCTACATTGCCTGATCAGTTGATGGCCATAAGTCAGCCAGGCCAACCA
CAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAAATGCCAGAGAATTCTCCACTGGCATCCTCT
ATAAACACCAACCAGAACATCGAAAAGATTGATTTGCTTGTTCATTGCAAAACCAAGGGAACAACCTTGACTGGC
TCCTTTTAACTGGATATAAATTCACGAAGAAAATCCTGATTCCAAGATGTCCTGAGATCTTGTGGTTCCATGAG
AATTATTACTTTAAAAACAAAACAAAATATAAAAACTGTGTTTGAGTAACTGATAGATTTTACTCTGACTGCA
AAAGAGCACACCTATGCTGCTTGTGAGTGACTAACCAATGTTAATCTTCATATTTTATATTCCTAATA
ACAGTGATGACTGAGAATCTATTTGAGTTTCCAGCTGGCAGAAATTAATTGTTATTTTCTAGGCGCAATTTT
CTTAAACGTACAGTTTAAATTCAAGGCTGGACCAGTCACTTATTATTGCTATTAGAAAATAATATATCATGTTTA
CTTTTGTCTTCATTATTTTCTTCTGCTGCTTTTGTGCAAGTAATGGCTTTTGAAAAGTAAAGTTCAATAA
TAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTGGCCAAAGTGAAGGAATCTTTTTTCAGTTTT
ATTGGAGAACTGAAGGGTAACATTCTAACAAGTAACTGTATGTGCAGATAGAAGTACTCTTGATTTAACACAA
AGGCAGATGATACACTTATAAACTGGGAACAGCTGGAATGCTTCTTGATTTTTATTTTTTCAGAGAGTTGTTAGT
TCTCTGGGTTTCTACTAAGGGGTTAGCCATAACTGTGCATAGAAAAATAATTATCTGTAAAAATGAAGGGGAT
AATATATGATAAATTATGTTCTGATATCCTCTACAGTAGTTTAAATTGACAGAAAAATTTGAATGTTTTCTTCT
TAACCCAGTCTTAGGCTGGTATTCCTTTTTATATATATCTATATTACTTTTCACTCTTTTTTCACTTTACTTTA
GAGAACTATTATATACTACTGGCTTCATGACCTGTAGCATCTTTGGCCACTTTAATCTAGGGTGACCTAGCAA
TCTGTCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGAGTTGATTCTGAGAAACAACACATTTTTCC
CCATGAACGGTGTCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAATAGGAAACAGTATAAATTTTAAATAAAAAA
AAAGGCAACTAAAATTTCTTGAATATCACTTCTCCCTGATCTGCAGTGAGTATAAATTCAGTTGTACCTCAG
TGCTTTACAGTTTGAAGTGGTCACTTACCTGATGGTCCCACAAGCCTTAGGCTTTACAGGGTTGTATCATTGAC

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FIGURE 1584C

TTAAATGAAGAATTAACCTTGTGTTACATCTATAAAGAGCAAAATAACACACTCCAGAACCTTGGCAGTTGTAGCA
TTAGTTATACAGTTTTGGGTGTTCTTGCCACCCGTGGGATGCCTGCTTCTCACTACCACCTGIGTCTGGACACAT
GCTTAIGTCTCATTTTCCTTTTGGCATGTGGAAAGCTGTCAATGCAGTGTAAGGCCAACGTGTGTGTGGCTTCTA
TGTGTTGAGATAATGTTTTGGTATCCTTGTCGGTTTCATTTATTTTTTAAGTGTACAAAAATAACCTGTTAATT
GTTGAAGGCTACTTTTCTGTTCTTTTTTTTTTTTTTCTATCCTGTACATTTAGTTGAAGTGTGCGGAATTGTG
GTGTTGGTTTTGTTTACACAGCCAGATTTTCCCTCTTTTTTGGGATGATCTTCTTTGTTCTTTGAATGG
GCTCTTTTGCTTTTCTCTTTTTTCTCATGTTTTCTCCCTCCACCTCCACCCCTTTCTTTCTCTCTCTGA
TTGAGAGGCATTGAATTACGTTTTTCAGTAGTACAGGCTTCTTGCCGATATGAAGGGAACCTTTTCAGAAAGAGACC
TACTCTGGGTCAATTAATTTTGAATACAGTTTTCAATCGTTCAAGTTTTGGATGGTTTATATCTAATGTGTGTT
CATTTTTTTGGAAAGCTATATTTTGTATTTAGGAAATGGTATACTATTTGCTATTTGCTACTGAGTGAGTACATT
GGCATAAATATAGAAATTTATATATATACATATATATAAACTATTCTTTTTTGCCACACATTTTTGTGGTAAATT
TGTGAGTTTGTCTGATGTTCTACCACAACGTGGCGTCTGATAACAGTGAGGGGGGTGGGTTTGTATGCTTT
ATTGAGTATTTAAGTATCTTTTGAACAAATGACCTGTTTCATCTGTGGCCATTCCATCAGCGAGTTAGTTCCTTG
ATGTCAGTAGTGGGCTAAAGGCAGCTTACTGTGTGTTTGTCTGGAGCTTCACTCAGCCAAGTGTAGGGTCAGGA
AACCCATTGAGGCAATGGCGTCAAATGGTGTTCACAGAATGAGCCATTCAGTCTTTGCTCACTATATATTTAA
TATTTATTATTGTTGTTATTGTTATTATTAATTTGGCCTTTCTGTATTCTATGCCTTTTATTATAAAGACACTA
AGAAAACCCATGTTTGTAAATTTTAATAACATTTTCCCATCTTGTAATATCCAGAGCTACTTTATAAATTCTCTG
AACCAAAAGTATTTTCTCAGTGTATCTTCTCCCCAGCCCTATTGGGAAAAATTACCCAGTATAGTTCAGG
TTATGAGGAGGACTCAGCCACACAATCCAGTGCTTCAGTTTGAATAATGTAAATTTCTAACCTAAAGTAGGGTTGG
TTGAAATTTTCAGACAAAGCAAACCCAGCAGGTATAAAAAGTAGTATAAATACAAATCTGTAAGTTATTTTTGAAT
TTTCTGAACCTTTTTCTAAGAGATTACATAGGAGACTAAAGAAATCTATCTGTTCAAGTTCTAATTAGGATGATT
GTTAACTACTGCACGTGGATGAAGTGGCGACTGGCTTGTGTGCTGACTTCTGTGGTTTAGCAAGAGGTTTATTGT
TATCAAAATGCTAATTGGCAATGCCAAGTCACTGGGACCAATTTTCTGTTTATAATATCTAAGTTTAGAACAGAA
TATATACCTGAACGTGATGTTGTTGATCGGATGGAGACAGAAAACCCGATTTTATTCTCATAAATTTGTGGTT
ATTTATACAAGGGCTGTGCTATGCTACCATATTCTTGTTCAATAATAAGGTTTGTGTTTTTTTTTACATTGTT
AAATGTTCCCTTACCCCTAAAGGTCAATGTTAAGTACAACATTCTGAAAATACAATTTGGCTACAAAGAGTATTCA
TCTTCTTTGAAGCTCAGTGGTTGATTTTGTGCTAATAATGCAATTTCTGATTACTGTTACAAGTTATAGCTAC
ATATGGGAGAGACTCAGGTGAGCCAGCAAAGGCCATAGAAACAACATTTATTAAATGTATTTATGGCAGAAGGA
CCTAAATAAACTGTGAGCCACCTTTTCTTCTTTATATTGTTACATTTAAGTGTCTCGTTTCAAGCAACTCACAT
TAATGCTTGGAGCTTATCTCTTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTTTCTTATTGTCAATTCATTATATATCCACACCAACATGGGTGACGATAATTCAAAGTCATATTTGCC
TCTAAGCTTGATCATGTTACCTTTATGATTAAAGTATCATGTTATTTAGCCAATGCAAATCTGTTTTAAAAÇAAA
TAGTTTTAAAAAAGAACAAGTTTTTAAGGGCTTTATTATAGAAGAAGTATTAATGAAGGACTTTCCTTCTCCCT
CCCTTTCTCCCTCCCTGCTCCCTTCTTCCCTTCCATCTCCCCCTCTCCCTGCCTTCTTTGTTTCTCTTCC
CTTATTCTCCCTCCCTCCTTTCTCCCTTCCCTTCTTCCATTATCCTTCCCTTGCTTTTATTTTTATTTT
TTGTAATATCACATGTGCTGTAGTTTGGAAATTTATTCTAGTGCATTTCTTGCTCATCAGAACCTCAGCTAATCT
ACCTAGGAAAAATAGTATCAAAGGAAATGAGAAAGTTGTATCTGAGTCCCTCCAGAACTAAGATAATTCTTTTTG
ACCATTTAAGCCTTTATAAATGCGTTTTTGACCATTTAAGCCTTTATAAATGCTTGTTTTAGGAAAGTGAATCTGT
TAGATGCATCAACAAATAATGACCAGGACAAAACGATTTAATAATTAAGTCTCAAATCACCATGGTTATACATT
TTCACCAGAAATAGTAATCTTACAATTTTTTCATTTTTCTGATGAAGATTTCTGTTACAATATCTGTTTCTTAATA
GATTTTTTAAATTAATTAGCTTTCCTCTGCTTTATGACCATAGGTTTTATCCCTAACCGAGACAGCTGTCTTATA
TCTGCATGCCCTTAGACTGTGTGGAGGGACTCCATGAAGAAAGACCATAGGTTAGAAAAATAACTCATAGTATATA
CCCTAGTAAGTGGGTTAGTAGAATCTCATAACATGTATTAAGAGGTTTTCTCTCTGCTTGTGTGTGCTACT
AGAGCAAAATTTAGAGATAATGCTCATAATGCAGTAAATATCAGAATAATATCTACAATATCATTTGTGGATGG
TCCCAGGTCCCAGTGCTCTAGTTACTTTACTTCTTTTTTTTTTTTGTAGATGGAGTCTTGCTCTGTCTCTCAGGCT
AGAGCAGTGTGCGATCTCAGCTCACTGCAGCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCA
AGTAGCCAGGATTACAGGCACCTCCACTAGGCCCGCTAATTTTTTTTGTATTTTTTAGTAGAGATGGGGTTT
TGCCATGTTGGCCAGGCTGGTTTCGAACCTCTAACCTCCAGTGATCCACCTGCCTCGGCGTCCCAAAGTGCTAGG

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FIGURE 1584D

ATTACAGGCATGAGCCACCACATCCGGTCTAATTACTTCTTTAATCCCCATTTATTTTTATGCCATTCTAGCCTC
ATTTATTAATAAAATTATGTTTTACTTTCTTTTCAGGAAATTTTTAAATTAATATTTTATATCTAGATCAAA
TGCTATGGAAAAGTGCCCTTTTATCATTTATAATTTTCATTTTTCATTTTCCAAAAACACATAAACAAATAGTT
TCAGTAGGTCCCAGCTTTTACTTTTTCCATTTAAACCTTCTTTTCTCCATTTCTTCCCTTTGGCTTAAGAATAAA
AGAAAAGGTACATTGCTAGAAATGTTTCTTTGGGAGAGGGTAAAAGATTACAGAATTAGACTGTTGAGCCTTTAT
ATAAACTAAATTTGTCTTCACTCAACCAGCTAATGGTAGGTCTTATCTGAATACTCATGAGAATTTTAGCATCT
GTGAACTCCATGCACCAGATGTGTGTAATTTTCAGGAAGAAAGGTTGAAAGCATTCTCTGATGTTAATTAG
ATGGAATAAACTACTAAAACATAGTTTAGGTAAAGCCTGATTATGCCACTTTTTTAACTAGACAGGGCAAAG
TTGTTTATGTTAGTGACTTCTGTCTATCCTCAGTTAATTTACCTAGACAAAAAGTGTCAAAGGAAATGAGAAA
AAGGTTATATCTGACTCCCTCCAGACCTAAGATAATTCCTTTTGATCAGATACAGTCAGATGGAGTGCCTTGTT
TTTGTTAATTTTGCTCTATTCCAGCTCCTTACCACAGCGGTGGTGCTTAAAGAAAGGATCATCAGCAACAGGTC
AGGATAGTTCTACCTTTGGGATAGGGCTGCTTTCCCGTGCTAGTATTCTGTGACTGTTAGTGGCACTGAGGAC
TGCAAACTTTTATGCAATATTTCTAATACCCTATTGATATTATGCACTTTAATCATTCCAAAGAAGCCAAGAATG
CTGTATAGTGATGATTCTTCTAATGAATTCATCTAATCTTTAGAAATGTTATGTCCCTTTCTTTTGATAG
CCAATTTGGTATAAAATGTTATATGGATTTTTCTAAATGACTATATAGGACTTAAGACTTTGAAATGTAAATTTAC
TTATAAGGGGAAATAATTATGCTTTAGCACATCATTTTAGAAACGTCACATTTTAGAACATTCAGCTTGCTAACC
TACATGTTTGGGAATTCATTTAAACCAAGTGTCTATATATTTTGTGCCATGTATATAAGAACATTACAATATAT
CTTTTCTACATATGTAGTATGTGCAACCAGTGGTTCTCAGAGTATGGTTCTCAGCCCACCAGCTAGTATCAGTA
TCACCTGGGAAGTGTAGAAATGTAATTCCTTTGGCCCCATCCCAGACATACTGAGTCAGAAACTCTGGAATAG
GGCCCCGCAATCTGTTTTCACAAGCCCTCCAGGTGATTCTGATGCACACTTTAAAGTTTAGGAACCACTGGGCT
AAGACTCTGTTGAGATATAGAGTTTTCTTCCACTCAGACTGATATAGTTATACATTGTTCTTCATGTAAATTC
GCTTAACCTGGTTATCTATAATCTTTTATTGGCAAAAGTTAATTTCTCAGTACTGCCTATAGAGATACAGTGTATT
TTATGTACATACACAATTAGTCTAATTTCTGATAATTCAGTTAATTTAGTTTGGCATTTCCTACCCTTACTAA
AAGGTTTACATTAAATGACTGATTTAAATATATAGGTGCAATGTTCTATGTTTATTTAATTGTTATGACATTTA
AGTAGCTAATATAATTGACCGGTGCTAAAGTCTCCTGTTTATCCATAAAATGGGTACATTATGGGCAGTGTAAATA
CAAGCTTCTTTTCAATGCTAGTACTTTACCAGCAGACACAGTTTTGCCTGGCTAGACCAACCCCTCAGAACAA
AATCATCATTCTTGTATTTATATTTGTATCTGAGATGATTAACAAGATGGCTGGCCAGGTCAACATGGCACCTT
AACTTATTTTTTAAATAGGTAAACTTCTTCAAAGTAGCTTGCTTTGTATAAGAACTAAGCTATCAGTATAGAT
ATAGCTATCCTTGGAGCTTATGTTTCAGACAAGAATTATTACTAAAATAAATAAATAAACAAGATAATGCATTAT
ACATTTGGGCATTTCTCGTTTCTCAAGTGTATGCATCATGGTAAATATAAACTAACCACAAGATAGGTAGATTGA
TTCAATTCATTTAATCTCCTTGTGTAATTCAGTACCTCCATAATTGTTCTAATCTTCTTCCCACTGTTTACAAA
TTACCAGTTAATTAACCTCGTGAAAGAAAAATTCACATATCAGAATAAAAAATAAATGTATACTCACTTTATAAAAA
TCACCACTGCTGTCTTTCTTAATACTAGCAGTGGAATGTAAGTGGCTTACTCTACAAATTTTGGTGCTGGCAA
ATACATAGGCAAACTGTTGGGAGCTGCTCTAGTTACATTCTCCCTTCTTATTCCCTTTTCTCTTCTCACTTT
ATTGCATAACATATTCCTGTACCCAAAGCATTCTACCACAGTTCTATTTGACTCCCCTTGTAAATACTCCTTTA
AAAAATTCCATGTTTAAACCATATGACCCTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCTTCTCTCTCT
CTTCCAGAAGTCATTTGCCTGGTTTGAATATTTTGTAGGGATTGCTTATTATATTATTTAGCTGATGAACCTC
AGGACAACGTCTACACACACACATACATACACGCACACAAAAATCTCAGCTGTTGAAGAGTGGGCTTGAATCA
GACTTCTGTGTCCAGTAAAAAATCCTGCACTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCCAGTGAA
CTTGATCTAATTTCTTTTGTCTAATGAATGTCTGCTTACCTTGTTTCTTTTAAATTGATAAGCTCCAAGTAG
TTGCTAATTTTTTGACAACTTTAAATGAGTTTCATTCACTTCTTTTACTTAATGTTTTAAGTATAGTACCAATAA
TTTCATTAACTGTTCTCAAGTGGTTTAGCTACCATTCTGCCATTTTAAATTTTTTAAATTTTATTGCTTGA
GCACACTGATCAACCACTGAAGTGCCTTCTTCCATTGTCTGCAATGATATAAGGGTTACATTTTTGTGTATATG
GCTTTTCATAGTTGGGATTTAGAGCACTGATACCAGATATTTTTCAGTTTGTCTCTGGGGGAATTTCAATTTGCAT
CTATGTTTTTAGCTATCTGTGATAACTTGTAAATATTAATAAAGATATTTTGCTTCTATTGGAACATTTGTATAC
TCGCAACTATATTTCTGTAAACAGCTGCAGTCAAAAAATAAAACACTGAAAGTTAAAAAATAAAAAAAAAAAAAA

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FIGURE 1585

MGGACSSFTTSSSPTIYSTSVTDSKAMQVESCSSAVGVSNRGVSEKQLTSNTVQQHPSTPKRHTVLYISPPPEDL
LDNSRMSCQDEGCGLSEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNPKQRPQVKKRRDCEESNMDIFD
ADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEGS
RGSVKDRTQQGFPTVKLEGHNEPVVLQVFGNDSGRVKPHGFYQACRV TGRNTTPCKEVDIEGTTVIEVGLDPSN
NMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTLPSSPILCTQFAGVPEILKKS
LHSCSVKGEEVFLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNHLIVKVPYHDQHITLPVSVGIYV
VTNAGRSHDVQPFYTPDPAAAGALNVNVKKEISSPARPCSFEEAMKAMKTTGCNLDKVNIIIPNALMTPLIPSSM
IKSEDTVMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIHAKAYNPETLT
TIQTQDISQPGTFPAVSASSQLPNSDALLQATQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSPLEQEQ
TLQQQISSNIFPSPNSVSQLQNTIQQQLQAGSFTGSTASGSSGSVDLVQQVLEAQQQLSSVLFSA PDGNENVQEQ
SADIFQQVSQIQSGVSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQVMESSAAMVMEMQ
QSICQAAAIQSELFPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMQCELFSSPPAVSGNETSTTTTQQVAT
PGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQM QHSGDNQPVNLFSSTKSMMSVQNSGTQQQGNLFGQGNE
MMSLQSGNFLQQSSHSQAQLFHPQNP IADAQNLSQETQGS LFHSPNP IVHSQTSTTSSEQMPPMFHSQSTIAVL
QGSSVPQDQQSTNIFLSQSPMNNLQNTNVAQEAFFAAPNSISPLQSTSNSEQQA AFQQQAPISHIQT PMLSQEQA
QPPQQGLFQPQVALGSLPPNMPQSQQGTMFQSQHSIVAMQSNSPSQEQQQQQQQQQQQQQQSILFSNQNTM
ATMASPKQPPPNMIFNPNQNP MANQEQQNQSI FHQQSNMAPMNQEQQPMQFQSQSTVSSLQNP GPTQSESSQTP
FHSSPQIQLVQGSPPSSQEQQVTLFLSPASMSALQTSINQQDMQQSPLYSPQNNMPGIQ GATSSPQPQATL FHNTA
GGTMNQLQNSPGSSQQTSGMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTLLSQMPENSPL
ASSINTNQNI EKIDLLVSLQNGNNLTGSF

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FIGURE 1586

AGAAACGGCAGTGGCAGCAGCGTCCGGAGCAGCCGACGCTTCTGGAAGCTCCAGGCGGTCTTTCTGCCGAGCCT
CGGTCCCGGGCCCCCATCCTCCCCGCCCCATCGGTTGTTGTCTGGGCGGATTAAACAGTCAAGTAAAATCAAGCT
GGGTAATCATGGCAGAAGGTGGATTGATCCCTGTGAATGTGTTTGCTCTCATGAACATGCAATGAGAAGACTGA
TCAATCTGTTACGGCAGTCCCAGTCCCTACTGCACAGACACAGAGTGTCTTCAGGAATTACCGGGACCCTCTGGTG
ATAATGGCATCAGTGTTACAATGATCTTGGTAGCCTGGATGGTTATTGCATTGATCTTGTCTTACTGAGACCTC
CTAATCTAAGAGGATCCAGCCTACCTGGAAGCCAACCAGTCCCTCATAATGGACAAGATCCACCAGCTCCTCCTG
TGGACTAACTTTTGATATGGGAAGTGAAAATAGTTAACACCTTGCACGACCAAACGAACGAAGATGACCAGAGT
ACTCTTAACCCCATAGAACTGTTTTTCCTTTTGTATCTGCAATATGGGATGGTATTGTTTTTCATGAGCTTCTAG
AAATTTCACTTGCAAGTTTATTTTTGCTTCCCTGTGTTACTGCCATTCCCTATTTACAGTATATTTGAGTGAATGAT
TATATTTTTAAAAAGTTACATGGGGCTTTTTTGGTTGTCCTAACTTACAAACATTCCACTCATTCTGTTTGTAA
CTGTGATTATAATTTTTGTGATAATTTCTGGCCTGATTGAAGGAAATTTGAGAGGTCTGCATTATATATTTTTAA
ATAGATTGATAGGTTTTTAAATTGCTTTTTTTCATAAGGTATTTATAAAGTTATTTGGGGTGTCTGGGATTGT
GTGAAAGAAAATTAGAACCACGCTGTATTTACATTTACCTGGTAGTTTATTTGTGGATGGCAGTTTTCTGTAGT
TTTGGGGACTGTGGTAGCTCTTGGATTGTTTTGCAAATTACAGCTGAAATCTGTGTCATGGATTAACTGGCTTA
TGTGGCTAGAATAGGAAGAGAGAAAAATGAAATGGTTGTTACTAATTTTATACTCCCATTAAAAATCTCTAAT
GTTAAGAAAACCTTAAATAAACATGATTGATCAATATGGCAGATGATTTACAGTCCATTATATGACATTTGTAAG
CCACTCAACACTAGCCTTACAAGGTTTCATGAAAGGAGGAAAACATTAATTCTTTCTGCCTTTGCTGATATAATCC
ACATAGTAATAATTTAAGCTATAATTTATTTTTAAATGAGTGCCTCTTGGGAAGCTTCTTTTCTGTTCTAACAG
TTCCCTGTTAAATGAAAATCTTAGGCCAGTGCAGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGG
TGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGCTCTACTAAAAATA
CAGAAAAATTAGCCAGGGTTGGTGCATGTGCCTGTAATCCCAGCTACTCAGGAGGCCAAAGCAGGAGAATTGCTT
GAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCACCCTGCATTCCAGCCTAAGCAATAGAGCGAGACTC
CTCCCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1587

MAEGGFDPCECVCSHEHAMRRLINLLRQSQSYCTDTECLQELPGPSGDNGISVTMILVAWMVIALILFLLRPPNL
RGSSLPGKPTSPHNGQDPPAPPVD

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FIGURE 1588A

CAGCCCGGCTTCGTCGCCGCCGCTCCCTGCTGCTCCTCCTTTCCCCAGCCCGCCGCGCCATGGCGGACA
GCGCCAGCGAGAGCGACACGGACGGGGCGGGGGCAACAGCAGCAGCTCGGCCGCCATGCAGTCGTCCTGCTCGT
CGACCTCGNNNNNNNNNNNNNNNNNNNNNNNAGGCGGCGGGTGGGAAGTCGGGGGGCATTGTCATCTCGCCGT
TCCGCCTGGAGGAGCTCACCAACCGCTGGCCTCGCTGCAGCAAGAGAACAAGGTGCTGAAGATAGAGCTGGAGA
CCTACAACTGAAGTGCAAGGCACTGCAGGAGGAGAACC CGCAGCTGCGCAAAGCCAGCGTGACCATCCAAGCCA
GGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATTCAAGAAAATTCAGGCTTTGCAGAAGGAGAAA
CCCTTGCTGTAAATTATGAGAAAGAAGAATTCCTCACTAATGAGCTCTCCAGAAAATTGATGCAGTTGCAGC
ATGAGAAAGCCGAAGTAGAACAGCATCTTGAACAAGAGCAGGAATTCAGGTCAACAACTGATGAAGAAAATTA
AAAACTGGAGAATGACACCATTTCTAAGCAACTTACATTAGAACAGTTGAGACGGGAGAAGATTGACCTTGAAA
ATACATTGGAACAAGAACAAGAAGCACTAGTTAATCGCCTCTGGAAAAGGATGGATAAGCTTGAAGCTGAAAAGC
GAATCTGCAGGAAAAATTAGACCAGCCGCTCTGCTCCACCATCGCCTAGAGATATCTCCATGGAGATTGATT
CTCCAGAAAATATGATGCGTCACATCAGGTTTTTAAAGAATGAAGTGAACGGCTGAAGAAGCAACTGAGAGCTG
CTCAGTTACAGCATTACAGAGAAAATGGCACAGTATCTGGAGGAGGAACGTCACATGAGAGAAGAGAACTTGAGGC
TCCAGAGGAAGCTGCAGAGGGAGATGGAGAGAAGAGAAGCCCTCTGTCGACAGCTCTCCGAGAGTGAGTCCAGCT
TAGAAATGGACGACGAAAGGTATTTAATGAGATGTCTGCACAAGGATTAAGACCTCGCACTGTGTCCAGCCCCGA
TCCCTTACACACCTTCTCCGAGTTCAAGCAGGCCATATACCTGGTCTATCATATGCAAGTCACACGGTTGGTT
TCACGCCACCAACTTCACTGACTAGAGCTGGAATGTCTTATTACAATTCCCCGGGTCTTCAGCTGAGCAGCATGG
GAACATCCCATGGTATCACAAAGCCCTTACCACGGAGAAGCAACAGTCTGACAAATTCAAACGGCCACGCGC
CTCCATCTCCCAACACACAGACCCAGTCCAGCCACCTCCACCTCCGCCACCCATGCAGCCACGCGTCC
CCTCAGCAGCCACCTCGCAGCCTACTCCTTCGCAACATTCGGCGCACACCTCCTCCAGCCTTAATGCATGAGCT
TAGTCTGAATTTCAAGTTGGGACTCATCCAATGGAGCCGCTACTCAACGCCAAAGGCTTCTTCTCTGGCATAT
TTGGATATGACTTATTTGCAGTGAAGTTATCTAGGCTTCACTATCCATTGTGTTGTAAATGTTTGTGAGAAATGC
AGCCAGTGTGTGGGTCTACAACACTAACCAGACGACTTTTTCCATCAGTGTTTTACTTGAATCTTCATGTACGT
CCATTCCCTGGCTGGAACCTTCGCTGTTTTGGTATTTGGTATTTTCAGCAGCAGTGTCGAATTTTTGCTTGGCCAG
AGCTTCATTCTCCTGGCTTTTAGGTTTGTAAAGAAAAAGGGATATCTTTTTTATATTTTTTCCATGAATCTGC
AGAAAATTACTGAGCTGTTGTTACCCCTCCTCTCATTATAATAGTGTTTACCAAACATACCAATAATTCAGCACTA
CAATTCAGACCTTTGAAAATCTGGCTTTTCACTGTAGAACAGAAAGTTAGATGAATCAGTGCCCAAGACATATTTT
CTGTTTAAACAGAACTTTCTACAGATACATTTTTTACAGGTTATTTTCACTGTGTTATTGACATCCATGTCTCTCG
TAAACAGATGGCCCAAAGTAATGAATCATGTGGCTGTACCTTCTCCACATAAATGGGATGGATAATTATCGTAT
ATTAAGATGTGATTCTCTTTTTTATCCTTAATGTTAATCTACTTAACCTGGCCCCCTTAACATGAGTCGATAAA
TGTTGTCTACTCACCGGTGGTTTCAATGGCTAATTAGAATGTGTTATTTGATTTCTGCTGCAGAAGGCAGTGTG
ATTGTAACAAAAAATGCGGCTTCCCCCTTTCGTACTTCATTGTGTTCTCTTAAAAATAGAGTTTGAACAAATA
TTTTAAAGGTGCAAAATACCATTAGAAAATACTATTTGAAATGGACATTATCGCATTATCTTGGCATAATGGCCA
GAAAATATTGTATTGCTTGGCAGAAAAGAAAATAAGGTCTAAAGGAAAGTAGCACATTAGCATTGATGGCTGTTC
ATTTACCCAGTATAAGCAAGTGCAGTGTAACAAGAAGTATATTCTGAATACATTATTTCCATTCAATTTAGCACA
AATAAATCAATTTGGTTTCACTTTGCAGTGAACACTGAGTCACCTTTTTCTTAACACGTGCAACATCTTAATTTT
TGTTTTTCAGCAGTTGCTGTTTTGTACTTTGGTAGTGAAGTGATTTTACCACCTGTGTTGCATATTTATATAT
GCTGTGGATGAAAATAACTTACTAGAGAATGTATATTTATGACAAGAATGTGTATCTGTTGGATATAATCAGAG
AACTGAAAAGTAATTTATCAGTAATTTTTAAGAGTCCATGTTTTGTGACAACCATCTCTAATAGCCAACTCTTTA
TTAAACACACTCTTAAAAATAAGGAACCATGACATTGTAGATATTTAATATTGTACAGTATAGAAACCTCCATTT
TTGCCCTCGAATGCATATTTAAGAGTTAACAAGATGAAAAAAGTCTTGTTGGATAATAGTGTGTTGACTAGC
GTTTTAAGAACTTGAGAGTAAAAGCAACAATAAGATTTTTTACCTCTTCTGCTTCCACCCCAACTGAGAAC
ATCACTCAATTGTTTGAAGAACTGTAGGTCTATATAAATTTTATTTATAATGTATGTGAATATACATAATCA
TAATACAGTTCTCAGATGCAGGGAAGAAGTTTGGCATTAAATCATTGAGGCTTTAGGTTTTTGATGTGATCAGAC
TGGGCCATGTCAAACCCGGAATTTTACCAACAGTTCACTCACCTCCTGGTACATTGCCATTCCAAGGAATTCT
GAGAGTAGGCAACAAATTTTGCCTTCATGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGTATATGTTT
ATAAGAATCTTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGACCCCAACAAGAAAGTCCATAAT
GGAATGATCTTCCCTCAGCTTCTATCGATTTAGTTACCTCTTGAAAGCACAAAAATTAAACATTGCCATATGT

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FIGURE 1588B

TGAATTTTTTAAAAAGCACTTGGAGTGAGCGAACATTTCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTC
AGACATCTGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAAACAGCACT
TTTTCCACATAAATCTAGTTGCCTCTCCCTGTGGACATTCAGAACTGATAGAACAAACACTACTCTTTTGAATTT
GATGGTTCGTGTCCTTTAAAGTGTTTGAGGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCTAGGACAA
TTTCTTGGCAATTGTCTTACTACTAGGGATCAGTAAGATTTAGATTCTGAGCCCATAAATGGCAACAGCCCCCTCA
CCTATGGGAAGCTGACTTCCCTCAGTCGGGCACTTCTCATGGGGGCTGAACATGGTTCCCTGCCATTCTGTTACCC
ACTCTCCCAGGTGAGCCCTGGATTGGCTCCCAGAAGGCCCTTTGTAAAATCAGTAGCCATCCTGCAGGCAGGTGGG
AGCAACAGGGGCTTCAGTAGCTTCATTTTCTGTCTTGACAGACAGAGACCCTTGGCTACCCTGTGCTGCTAATA
GGATAAGTACTCTGTTGCCAGATTACCATGCCTTTTATACAAAACCAAATTAACCTTACCTAATACCTGACACCTC
TTTGGGCTCTGAACTGCTTTCTCTCATCAAGCATGTAGCACTCTAGACAGAATTCTAGAAAATTGGCAGACAGT
GGAAGCCCTTTAATTGAACTTACTCCTTCGTTGACTGAAAGGAGTTTTAAATCTGAGCTCCTGAGATACTGACTA
GCAACCATGGAATGAATGTGTGACCAGAAAGTGGCTTTGACACCAAGTGCTACTGTCCCTTTGTAATTGGCTTCT
AACAGATTCAACCAGAAATAATTGATAATGTGAATTTTGTTAATTGTTCACTTGTAGGAAAATAGAACATGTAT
CACCTTTTGTTAGGTAGACATGAACTTTCTCTGCACAAAGCCCTTGCTTTTAGAGAATGCCCAATAAGGCAAGAAA
AAGCATAGTAACTTGTGCTTTGAGAGCTCAATATTTGTATCTTATCAGTACAGAAGAAATATTTCTGTGTAACCT
GATCTTCTGTCTAGTACTTGTCTTATAGGTAACCAACACTGAAAACCTTTGTAGTGATGACTACCAAAGAAATACA
TAGTAAAACAACCTTTTATTTCCAAATTGTTAAAGAGCCAGCCATTGATGCTGCTACATGAGTTCCATGCTCAAG
AGCCATTGTAAGAGATTAAAGGGTTTTCTAGGTTTTTGGTGATTTTTTGTGTTCTTTTTCTTTGTTTTTTAGGG
TTTTTTTTTCTTCTTTAATTTTTTTGATTAAAACATACACACAGCTGTTAGCATAAAGTCGTGGGGGGCATTCTTCT
GGAATGCTCAGCAGTTCTGATTAACTGCCAAGCCCAGGTTGCCTCTCATGAGGCAACTGAAAAAATCCTGTGTCT
TGATAGCATGGGTGCTGTGTGTGTGCATGTGTGTGTCTGCATTTCATGCCTTAACTCGGGTTACTGCACAACCTTA
GTTCTTGACTTAGTCTGCACCGTCATCTAGATTGTATTGTACATCTCGGTCTGAACTTCATCCTGGCAAAAACAA
AGTTGCAGGCACAACAGTTTAAAGATGCATTCCCTCCAGAAGAGTATCTGGTCAGGTTGACCCTGAGCCTTCTTTG
GACTTGATTGGAACCTAGCCTGGAAAGCGAAAAGTGGACTGTCCAACAGAAAGATGTCAACAAGGAAAAGAGGAG
AGCCAAGCGCTAGCATGCCTTTTGCTCTGCATATCTGTGCACACTGTATGTTGTTTCATGATAGCTGTCTACAA
CTTGACTAGGTTGGAGTTCTGGTAATAGTGGCAATCTTGACATTCTTGGTCAGAGTTTAGAGAGATGTAAGACTT
TCAATTAATGTCTTATTTACTCCTTTATGTTGATTAGTCTTTGATACATGTGCTGAATCAGAAACCTAAATAAAG
ATAATTTTTTAAAATGTAAAAA

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FIGURE 1589

ARPSSPPPPCCSSSFQPAAAMADSASESDTDGAGGNSSSSAAMQSSCSSTSXXXXXXXXXGGGGKSGGIVISPF
RLEELTNRLASLQQENKVLKIELETYKLKCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKIQALQKEKET
LAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKKLENDTISKQLTLEQLRREKIDLEN
TLEQEQEALVNRLWKRMDKLEAEKRILQEKLDQPVSAAPPSPRDISMEIDSPENMMRHIRFLKNEVERLKKQLRAA
QLQHSEKMAQYLEEERHMREENLRLQKQLQREMERREALCRQLSESESSLEMDDERYFNEMSAQGLRPRTVSSPI
PYTPSPSSSRPISPGLSYASHTVGFTPTPTSLTRAGMSYYNPGLHVQHMGTSHGITRPSPRRSNSPDKFKRPTPP
PSPNTQTPVQPPPPPPPPMQPTVP SAATSQPTPSQHS AHTSSQP

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FIGURE 1590

ATAAAATTCTGCTTGTTAAGAACAAGTTTGGCTCTGGTAACTGACCTTCAAAGCTAAAATATAAACTATTTGGG
AAGTATGAAACGATGTCTCGTGATCTGGTGTACCCTTATCCCTGTGACGTTTGGCCTCTGACAATACTGGTATAA
TTGTAAATAATGTCAAACGCCGTTTCTAGCAAGTATTAAGGGAGCTGTGTCTGAAATGGCACTGTCTTGTCACT
CATTTCTGTTTACCTTTTTCTTCTGCCCAGAGTGTATTTGTGAAGAGTCTCTTATATTATGTTTGTGGAAATCA
GCACACAACCACAATGACATTTAAGCACAGGATCATTATTAGTCTATGTTTTTAATAAACATATCAATTAAGAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1591

GGCACGAGGCCGCCATGGCCTCTCTACTCGCCAAGGACGCCTACCTGCAGAGCCTGGCCAAGAAGATCTGCTCCC
ATTTCGGCCCCGGAACAGCAGGCGCGCACGCGGGCTGGCAAACTCAAGGCTCAGAACTGCAGGGCCCCCAAAA
AGAAAAGGAAGAAAACAAAAAGAAATTCCGGAAGCGAGAAGAGAAGGCTGCTGAGCACAAGGCCAAGTCCTTGG
GGGAGAAATCTCCAGCAGCCTCTGGGGCCAGGAGGCCTGAGGCAGCCAAAGAGGAAGCAGCTTGGGCTTCCAGCT
CAGCAGGGAACCTTGAGATGGCCTGGCCACTGAGCCTGAGTCTGTCTTTGCTCTGGATGTTCTGCGACAGCGAC
TGCATGAGAAGATCCAGGAGGCCCGGGGCCAGGGCAGTGCCAAGGAGCTGTCCCCTGCCGCCTTGGAGAAAAGGC
GGCGGAGAAAGCAGGAACGGGACCAGGAAGAAGAGGAAGCGAAAGGAGCTGCGGGCGAAAGAGAAGGCCAGGAAGG
CTGAGGAGGCCACGGAGGCCAGGAGGTGGTGGAGGCAACCCAGAGGGGGCCTGCACGGAGCCGCGGAGCCGC
CCGGGCTGATCTTCAATAAGGTGGAGGTGAGCGAAGACGAGCCGGCCAGCAAGGCGCAGCGCAGAAAAGAGAAGA
GGCAGAGGGTGAAGGGGAACCTCACGCCGCTGACCGGGAGGAACACCGGCAGCTGCTGGAGCGCCTGCAGGCAC
GGCAGAGCCGGCTGGACGAGCTGCGCGGCCAGGATGAGGGGAAGGCGCAGGAGCTGGAGGCGAAGATGAAGTGA
CCAACCTCTCTACAAGGCGGAGGGCGTGAAGATCCGTGACGACGAACGCCTGCTGCAGGAGGCCCTGAAGCGCA
AGGAGAAGCGCAGGGCGCAGCGGCAGCGCCGGTGGGAGAAGCGCACGGCCGGCGTGGTGGAGAAGATGCAGCAGC
GCCAGGACCGCGCGCGGCAGAACCTGCGCAGGAAGAAGCGCGCCCGCGCGCAGCGCCGCTGCTCAGAGCCCGCA
AGAAGGGCCGCATCTGCGCAGGACCTGGAGCGCGCAGGCCTGGTCTGAGTCTTTCCACCTGGGGCCCGCTC
TTCCGCTCTAGGAGACTCCAGGACACCCTCTGAGTCTTTGACGCTGGCTCTGTCCCAGGATCTCCACAGACCTCG
GCCTCTCCATGTGAGGGGGACACAGTGGTGTCTGTGCTGAGTTGTGAGGGCCCAGATCACAGATCCCATGTGAGAA
AGAGAGAGTTTCAGCGTCATCCTTGAACGCAGGATCCGGGACCTTCAGACCCAGGGAAAAGGTGAGGGAGACTGG
GGCCTGGTCTGCTTTCCCGGGCCTGAAAGCTTCCCGAGGTTTGCAGGGTCAGGGAGGAGGAACGGTGGGGTGG
GCAGTCACTGCCTGTTCCTTGCCTGTGTTTCGAGGAGCCACGGGACAGAAAGACGGTGCCTCTGCTGCCGGG
CCACGTTAGTCCGCAGCTCACCCGAACAGAGGACAAACCTGAGGTGTGGCATATGGGCACCTGGCACTGGGAGTC
GGGGGAGCACGTCCAGGCGTGGTGCATCCTGGGGCAGAACGCCATGGCTCCTCCCGCTCTCTTGGCTTCTGCCT
GTTGGGGTCTCATTCCTTTCTGTTCCCGAGTCCCCGGGGCGGCATTTTACTGCTCAGAAATTTGGAGGGAGGGAG
CAGTACCTTCCCGGAGTCCACGCATGTGAGTTGGGTCAAGTGCATTGGACCTAGGGAAAGAGAAAAGAAATAA
AAGCTGGAGAGAGAGTGAAGTGAATGCAAGATACAAAGTGGGATGGAAGAATTAAATCCAGAGTTCCAGGCAATC
AAAATGAGTGCAGGTGAAAGAAAACAGGTGAATTTTACTGGCATAATGGATGATAAAGCTGTAAATAAAATTTCTT
TTGATGAAACTCTCCGTTATGAGACAAAGACTGTAAGTGAACAGGAGCTGGTGTGACTGTTACCAGACAGAGGC
AACTGATGAAAAAGCCCTGTGAAAGATAGGATGTGAGGTGAGCATGAGCTTGAGCTGAGAGACAGACACAACAGT
ATCTGAAAAGAATACATACTCTTTCCATGCATATATGGAACATGGATGGAACTGACCACCTACTTTGTCCAGAA
AAGAAGTCTTAAGATATTTCAAGGAATCAGTGTGTTATCTGACCGTATCCCAATGTCATTAAAAAAATTTGAG
CTAAAAA

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FIGURE 1592

MASLLAKDAYLQSLAKKICSHSAPEQQARTRAGKTQGSETAGPPKKKRKKTQKKFRKREEKAAEHKAKSLGEKSP
AASGARRPEAAKEEAAWASSAGNPADGLATEPESVFALDVLRLHEKIQEARGQGSAKELSPAALKRRRRKQ
ERDRKKRKRKELRAKEKARKAEATEAQEVVEATPEGACTEPREPPGLIFNKVEVSEDEFASKAQRREKRQVRK
GNLTPLTGRNYRQLLERLQARQSRDELRGQDEGKAQELEAKMKWTNLLYKAEGVKIRDDELLQEALKRKEKRR
AQRQRWEKRTAGVVEKMQQRQDRRRQNLRKKAARAERRLLRARKKGRILPQDLERAGLV

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FIGURE 1593

GGCACGAGGGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCG
GGGCGCTTCGAGCCCCCAGCTGGTCACCGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCCTCGCGCA
CCCCGGCCCCGCTCACACGCGCGCCCGAGCGAGCCCCGGGCTCCCCTCGGGCCAGCGTGCGCAGGGGTCACT
GGTTCTCTCGGGTCTCGGGACAGGTGAGCACCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGC
AGGAGATCGTGGGCGCCCTCCGCAAGGGCGGGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGA
GCAGGTTTGATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGG
AGTGTGCGAAAGAGCTCACAGCGCTCCTTCACCACTATTACCCAAATTGAGATCGACCCACACCGGACCGTCAAGG
AGAAGCTACCTCATATGGTGGAATGGTGACCAAAGCGCACAAATCTCCTATGTCAGCAGAAGATTGAGAAGTTTC
AGATAGCCCAGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACC
ATAACAACATTCCCTTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAG
TGTTCCACCCCAACATCCACATCGTGTCTAATACTACATGGATTTTAAATGAAGATGGTTTTCTCCAGGGATTAAAGG
GCCAGCTGATACACACATACAACAAGAACAGCTCTGTGTGTGAGAACTGTGGTTACTTCCAGCAACTTGAGGGCA
AAACCAATGTATCCTGCTGGGAGACTCTATCGGGACCTCACCATGGCCGATGGGGTTCTGGTGTGCAGAAACA
TTCTCAAAATTGGCTTCTGAAATGACAAGGTGGAGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGC
TGGAGAAGGACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGA
TGCAAGGCCCCTGAAAGGCGCAGGCTCCAGCCCGGCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTG
CTCCCCGTGAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCTTCCGCGCCCCCTCCGTCTCCTT
TCCCTGAGCACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTGGTGA
ACCTTGACCACAGCATGTGCTGCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTAAACATGGG
AAGTTCAACAAATATAATGTGTGAAACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1594

MTLSRFAYNGKRCPSYNILDNSKIISEECRKELTALLHHYYPIDPHRTVKEKLPHMVEWWTKAHNLLCQQKI
QKFQIAQVVRESNAMLREGYKTFFNTLYHNNIPLFIFSAGIGDILEEIIIRQMKVFHPNIHIVSNYMDFNEDGFLQ
GFKGQLIHTYNKNSSVCENCGYFQQLEGKTNVILLGDSIGDLTMADGVPGVQNILKIGFLNDKVEERRERYMDSY
DIVLEKDETLDVVNGLLQHILCQGVQLEMQGP

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FIGURE 1595

CTCCGTCCTCAAAAAAGATGAAAATAAAATAAAATATATATTTACAGGCCTACAACTTTTGCCTCAGACTGTTCCC
CTTTTCTAAGGGTATTCAAGTTTTACCTTTTAAGCTTCATATCCTCAGTGCTTGTAGAATGATGAGCTTAGAGG
TACCAGGTCATTGCAGTTGTTTGCTTAAAGACTTATTGAAATGGTTACTGGCGTAAATACTTGGCCAACCTCAACT
TTATTGCCCCCTGATCTTTTCCATTTTTGTTTCCACCTTAACCTATAGCAGCTCCTCCAAATGAGGAATGCTGTAA
GTAAGACTCATCAAACAGATTTTAACCATTTTATTATCCTGTGTGCTTACATTGCTTCTGTGAGATGTTTTTT
TCTTATCTGAGATGAACCTTCAGGAGCCTATTGAACTCCAGACTGGTGTTCTGGGGCAAAGAGCTATTAGCCAA
ACTGATTCTATGCAGGTGAAGGATGCACTAAAGTTCTCAGTTTGTAGGAGACTTTTCTAGCTATTCCAATACAGA
GTTCTTTCTTATAGGGCTATTGATATTGACACCAAATGGAGTGGCTTCTCAGCCTCTTAATGTCTTAAGTAAGTG
CTTAATTTGGAATAGAGAAACCAGTATATTTTAAAAAAGAAAAATATTCTTTGTAGCAACTGTAAATTCTCCCA
TTATAACAGTGAACAGAGCTCCAGGTAATAACGCATAGGCATGTCAGGTTGCATCTGTATATTTGACTACATTAG
TATTAGTGACATCAGGTGGATATAAAAGAAAACCTTGGAAGAGAACTGCCTTAGCCATGATTTTCGTTAGTAGA
CCTATTTATGATTCAATTGCAATTTTCAGATAGGATGTGAACATGGAATTTTCATTGAAAATAGTTTAATTTTTTA
TATAAAAGGTTTTGTATATAATGTGTGTCAGTGACTATTTTCAAAATCATTTCATCAAGACACCTTTTTTCTAA
AATAGGCATTGCATACACATATGCACACGTATGTGCATGTGCCACACATTTTTTGTATAATGTTGGGTTTGATT
TAAAAGTGTGTCAAATGTTTTATTATCTGCATATAGCAGTGGTTGGCTTTTTTGAATTGAAATTTTGCAT
TGATGCATTGAAATAAGGAAAATTTATCTCTGAGCACTAACTTATTTTGCATATTTCTGTAATATTGCAG
TCCCCAGATCCAGAACATGGGAAGTTAGGGAAAATGTGTGATTTTGTGTTTTGAATTACTGTCAGAAATTACATAC
ACAATTACAACAACTTTTTTTTAAAAGACATTTTCATTGTACTGCAAAAATCTGAATATTTATATTTCTTGTTTT
TTCTTTATATGTTTTGCATTTTAATATGTTGAGCCACTGGAAATTTGTAACAGATTAATTTGTTATAGGAGTTTA
AATGTGTTGTCATTGTCTCCATTGTCTTTGTCCAGAGCCTATTATTATGGAAACAATAAAATTTATTGTGTCAGT
TGCTTTGATTCTT

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FIGURE 1596

MCCHCLHCLCPEPIIMETIKFIVSVALI

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FIGURE 1597

TCTCCACGTGGGTACCGGCGCTCTCGGCGCCCGTAGCCACCCGCCCGCGGAAGCCGACATCTCGAGTTCTGGCA
GAAGCAATTTGCGCGGCGAGGAGCGGAGCGGCAGGAACCCAATAAGCTGCTTCGCCTCGGAGCTGAAGCCCGTAC
TCAAGATGGCGGCTCCGGGCGGGCGTGGCCAGTGACTAGAAGGCGAGGCGCCGCGGGACCATGGCGGCGGGCGGCG
GACGAGCGGAGTCCAGAGGACGGAGAAGACGAGGAAGAGGAGGAGCAGTTGGTTCTGGTGAATTATCAGGAATT
ATTGATTCAGACTTCCTCTCAAAATGTGAAAATAAATGCAAGGTTTTGGGCATTGACACTGAGAGGCCCATTTCTG
CAAGTGGACAGCTGTGTCTTTGCTGGGGAGTATGAAGACACTCTAGGGACCTGTGTTATATTTGAAGAAAATGTT
GAACATGCTGATACAGAAGGCAATAATAAACAGTGCTAAAAATATAAATGCCATACAATGAAGAAGCTCAGCATG
ACAAGAACTCTCCTGACAGAGAAGAAGGAAGGAGAAGAAAACATAGGTGGGGTGAATGGCTGCAAATAAAGGAT
AATGATTTCTCCTATCGACCCAACATGATTTGTAACTTTCTACATGAAAATGAAGACGAAGAAGTGGTAGCTTCA
GCCCCAGATAAATCTTTGGAATTGGAAGAGGAAGAGATTCAAATGAACGACAGTTCAAACCTGAGTTGTGAACAG
GAGAAACCAATGCACCTTGGAATAGAAGATTCTGGTCCTCTTATTGATATACCTTCTGAGACAGAAGGTTCTGTT
TTTATGGAAACTCAAATGCTGCCTTAGAAATCACTCTCCTAGATGAAATGTTTCTCATAATAACTTGTCAAGAAC
TTTTTAGAGTTGTTACATAAAAATAATTGCTGCTGTAGCTTGTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1598

MAAAADERSPEDGEDEEEEEQLVLVELSGIIDSDFLSKCENKCKVLGIDTERPILQVDSCVFAGEYEDTLGTCVI
FEENVEHADTEGNNKTVLKVKCHTMKKLSMIRILLTEKKEGEENIGGVEWLQIKDNDFSYPNMMICNLFHENEDE
EVVASAPDKSLELEEEETQMNDSSNLSCEQEKPMHLEIEDSGPLIDIPSETEGSVFMETQMLP

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FIGURE 1599A

GCGAGCCTCTCTCGCGCACAAAGTTGTGGAGTCGTTTTCTCGGAGCAGGGAAGCGGGCAGCAGCAGCCGGCCG
CGGGCTTTCTCCCGCCGAGGGGCGAGGAGGAGCCTCTGGCTCCAGAAGCCGATTGGGGAATCACGGGGAGCGGCG
CCCCCTTTCTTTTGGGTCAATTTCTGCAAACGGAACCTCTGTAGCGTTTGGCAAAGTTGGTGCTGCGCGCCCT
TCCAGGTTTGGCGTTTACTGTTTTGTTTTTGGCGGAACCTACCAGGCAGGAAGATTGCACAAGTAAGGGGCGTTT
TCAGTCGGGTGTCAANNNNNNNNNNNNNNNNNNNNNNNNNAAAGATTTTCGGTTCGTGTCTGCTTCTCCAAGCTTT
ATTTTTTTTTTAAATACATCGCACACCACCAACTCACACTCGCACACACCCCCGCGTTACTCCGTGTCAAACCTC
CTAGAGGAGCCCTTGGCCAGCTCGGGGTGCGGCGGTGGCGACCGGCAGGCAGGAGGCCCGCGGCAGCAGGTAT
TGATGTCAAGCTGAACCATCGTAGGAAGTTGAAAGCCTTAGAAAGAGGACTTGGTAAAGTTTTTGGATTATCTTG
AAACTCTGGCAAATGGCCAAGTATGGAGAACATGAAGCCAGTCCTGACAATGGGCAGAACGAATTCAGTGATAT
CATTAACTCCAGATCTGATGAACACAATGACGTACAGAAGAAACCTTTACCAAATGGATAAATGCTCGATTTTC
AAAGAGTGGGAAACCACCCATCAATGATATGTTACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGA
AGGCCTCACAGGAACATCACTGCCAAAGGAACGTGGTTCCACAAGGTACATGCCTTAAATAACGTCAACAGAGT
GCTGCAGGTTTTACATCAGAACAATGTGGAATTAGTGAATATAGGGGGAACAGATTGTGGATGGAAATCACAA
ACTGACTTTGGGGTTACTTTGGAGCATCATTTCGACTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGA
CCTGCAGCAGACGAACAGTGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACAGGCCCTACAGCCAAGTCAA
CGTCCTCAACTTCACCACAGCTGGACAGATGGACTCGCCTTTAATGCTGTCTCCACCGACATAAACCTGATCT
CTTCAGCTGGGATAAAGTTGTCAAATGTCACCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTTA
TTTGGGAATTGAAAGCTGTTAGATCCTGAAGATGTTGCCGTTTCAGCTTCCTGACAAGAAATCCATAATTATGTA
TTTAACATCTTTGTTTGGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAG
GAAATATAAAAAAGAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCCTGAGGAGGAGCATGAGAGTCC
CCGAGCTGAAACTCCAGCACTGTCAGTGGTGCAGATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGT
GCTGACCTGGTTGCTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAA
AGACCAGTTTGAACCCATGAAGCTTTTATGATGGAAGTACTGCACACCAGAGCAGTGTGGGCAGCGTCCCTGCA
GGCAGGCAACCAACTGATAACACAAGGAACCTCTGTCAGACGAAGAAGAATTTGAGATTGAGGAACAGATGACCCCT
GCTGAATGCTAGATGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGA
ACTGCAGAAGAAGCAACTGCAGCAGCTCTCCGCTGGTTAACACTCACAGAGGAGCGCATTGAGAAGATGGAAAC
TTGCCCCCTGGATGATGATGTAAATCTCTACAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGA
GGCTGAACAGGTGAAAGTAAATCACTAACTCACATGGTGGTCAATTGTTGATGAAAACAGTGGTGAGAGTGCTAC
AGCTATCCTAGAGACCAGTTACAGAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTG
GAATAGGTTACAAGAAATCAATATATTGTGGCAGGAATTATTGGAAGAAGTGGTGTGTTGAAAGCTTGGTTAAC
CGAAAAAGAAGAGGCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAACCTAAGTGTGAGTGTTCG
ACGCTCTGGCTATTTTGAAGGAAGACATGGAAATGAAGCGTCAAACATTGGATCAGCTGAGTGAGATTGGCCAGGA
TGTGGGACAATTACTTGATAATTCGAAGGCATCTAAGAAGATCAACAGTGAAGTCAAGGAACTGACTCAAAGATG
GGATTCTTTGGTTCAGAGACTAGAAGATTCCTCCAACCAAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCA
GATTCCTCAGAAGGACCTTTTGGAGACTGTTTCGTGTAAGAGAACAAGCAATTACAAAAAATCTAAGCAGGAACCT
GCCTCCTCCTCCTCCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAG
TGCAGAGCTGTTGAAGTGGATTTTGAATGGAAAACCTGCCATTGAGCCACAGAGATAAAAGAGTATATGAAGAT
GCAAGACACTTCCGAAATGAAAAAGAAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGAAATCCCAGAGCAGA
TGAATTAACCAAACTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAGGCCTTCCTACTGAAGAAATAAAAAA
TGTCTGGAGAAGGTTTCATCAGAATGGAAGAATGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTGAGCT
ACAGGAAGATATAAATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAAGGTCATCAAGACAAAGGAGGAGTGGGT
AAAACACACTTCCATTTCTGAATCTTCCCGCAGTCCTTGCCAAGCTTGAAGGATTCCTGTGTCAGCGGGAATTGAC
AAATCTTCTTGGCCTTCACCCCAAATTTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGC
CCCAGATTTTGTCCAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCG
TCAACAACATCTAGAGAATGAACTGAAGGGCCAACCTGGACATGCATATCTGGAAACATTGAAAACACTGAAAGA
TGTGCTAAATGATTGAGAAAATAAGGCCAGGTGCTCTGAATGTCCTTAATGATCTTGCCAAGGTGGAGAAGGC
CCTGCAAGAAAAAAGACCCCTTGATGAAATCCTTGAGAACTCAGAAACCTGCATTACATAAACTTGCAAGAAAC
AAAGGCTCTGGAGAAAAATGTTTCATCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAA

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FIGURE 1599B

GTGGAACAAGCTAAAGGTCTTGGTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTT
TGAGGCCGATTCAACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCCA
AGGAGACGACGCAGGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAACAATTGAATC
ATCTCTGAAAAACATGAAGGAAATAGAGACTAATCTTGAAGTGGTCCAGTTGCTGGAATAAAAACTTGGGTGCA
GACAAGACTAGGTGACTACCAAACCTCAACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTC
TGAAAGTCAAGAAAAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGA
AGAATATTTGGAGCGGGATTTTGAGTACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGC
AAAAGAGGATGTGTTGCAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGTGCCAAGGT
GCCCTCTGGTGGCCAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAAT
TCGAGGAAAGTGCCACACGCTAGAGGAGGTCTGGTCTTGTGATTGAACTGCTTCACTATTGGATCTTGAAAC
TACCTGGTTAAACACTTTGGAAGAGCGGATGAAGACAGAGGTCTGCTGAGAAGACGGATGCTGTCAACGA
AGCCCTGGAGTCTCTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTTCGAGAGCTTGGCCAGAC
TCTGATTGATGGGGGATCCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATAGAGATCT
AAGTCACCTGGCAGAGAGCAAGCAGATTTCTTTGGAAGCAACTCCAGGTGCTGCGGGAACTGACCAGATGCT
TCAAGTCTTGCAAGAGAGCTTGGGGGAGCTGGACAACAGCTCACCATACCTGACTGACAGGATAGATGCTTT
CCAAGTTCCACAGGAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCCCTAGAGGAGTTGAGAAG
AAATATGCGTTCTCAGCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTCTACA
GAGGAAACTCCGAGAGGTGTCCACAAAGTTCCAGCTTTTCCAGAAGCCAGCTAAGTTTCGAGCAGCGCATGCTGGA
CTGCAAGCGTGTCTGGATGGCGTGAAAGCAGAACTTCACGTTCTGGATGTGAAGGACGTAGACCCCTGACGTCTAT
ACAGACGCACCTGGACAAGTGTATGAAACTGTATAAAACITTTAGTGAAGTCAAACTTGAAGTGAAACTGTGAT
TAAACAGGAAGACATATTGTCCAGAAACAGCAACCGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCT
GAAGGTTCTTTACAATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGC
CCGAAAAATGAAGAAAGAGGCTGCTTCTCTCTGAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTC
CACTTCAGAAGGTCTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGAAAA
GAGAAAAGCTGATTTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAAACTTGATTGAGGGCAGTGAGCCTAT
TTTAGAAGAGAGGCTCTGCGTCTTAACGCTGGGTGGAGCCGAGTTCTGACCTGGACTGAAGATTGGTGCAATAC
CTTGATGAACCATCAGAACCAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGC
TGAAGCTCTATTGGATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTTAGTATCTGA
GCTGGATGATGCCAACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGAAGCTC
AAGCAGGGAGCTTGTAGAACCAGTTAGCTGAGCTGAATAGGAACCTTTGAAAAGGTGTCTCAACATATCAAAAG
TGCCAAATTGCTAATTGCTCAGGAACCATTATACCAATGTTTGGTCACCACTGAAACATTTGAACTGGTGTGCC
TTTCTCTGACTTGGAAAAATTAGAAAATGACATAGAAAATATGTTAAAAATTTGTGGAAAAACACTTGGAAATCCAG
TGATGAAGATGAAAAGATGGATGAGGAGAGTGCCCAGATTGAGGAAGTTCTACAAAGAGGAGAAGAAATGTTACA
TCAACCTATGGAAGATAATAAAAAAGAAAAGATCCGTTTGAATATTACTTTTGCATACTAGATACAACAAAAT
TAAGGCAATCCCTATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGA
TTATCTGGTTGAAATTAACAAAATTTTACTTTGCTGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAA
CACTGCTATTTACGAAGACTTCTCTTTTTCAGGAAGACTCTCTGAAGAATATCAAAGACCAACTGGACAACTTGG
AGAGCAGATTGCAGTCATTATGAAAAACAGCCAGATGTATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGAT
CAGAGATACACTTACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTT
TGACAGGGCAATGGAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGAATAACAGAGGCTGA
AGAATTACTGGTTGATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACT
TGAGGTGGGCATCAGCAGCCACCAGCCAGTTTTGCAGCACTAAACCGAACTGGGGATGGGATTGTGCAGAACT
CTCCCAGGCAGATGGAAGCTTCTTGAAAGAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGA
AGTGAAGGATAGGCAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGAT
TATCTGTTGGTTAAACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGA
ATTAAGAGACTTAACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAAGTGAATTGGAGAT
GCTTTAGATAAAAGTCTGAGTTTACCTGAAAGGGATAAAATTTAGAAAAGCTTAAGGACTGTAATATGACATG
GAATAAGATTTGCAGAGAGGTGCCTACCACCCTGAAGGAATGCATCCAGGAGCCAGTTCTGTTTACAGACAAG

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FIGURE 1599C

GATTGCTGCTCATCCTAATGTCCAAAAGGTGGTGCTAGTATCATCTGCGTCAGATATTCCTGTTTCAGTCTCATCG
TACTTCGGAAATTTCAATTCCTGCTGATCTTGATAAACTATAACAGAAGTAGCCGACTGGCTGGTATTAATCGA
CCAGATGCTGAAGTCCAAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAT
TACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAA
AGCTTCCAGTTTCAGATATGAGAACAGCAATTACAGAAAAATTGGAAAGGGTCAAGAACCAGTGGGATGGCACCCA
GCATGGCGTTGAGCTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAGTGGGATGACCATAGGGA
GGAGACTGAAGAACTGATGAGAAAATATGAGGCTCGACTCTATATTCTTCAGCAAGCCCCGACGGGATCCACTCAC
CAAACAAATTTCTGATAACCAAATACTGCTTCAAGAACTGGGTCCTGGAGATGGTATCGTCATGGCGTTTCGATAA
CGTCTCGCAGAACTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAA
AACATCATGGATCAATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGAGGCTGAGTGGAGGACGGGTGCA
GGCCTCTCGCAGAGATCTGGAAAACCTTCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGA
TGCTCTCATCGGGAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACCTCAAACAGCAGATGCAGGACATCCA
GGCAGAAATGATGCCCCAATGACATATTTAAAGCATTGACGAAACAGGCAGAGATGGTAAAGCTTTGGG
AAATTCTGAAGAGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGGAATGACTTAAAGCAAA
ATCTGCTAGCATCAGGGCCCATTTGGAGGCCAGCGCTGAGAAGTGAACAGGTTGCTGATGTCCTTAGAAGAACT
GATCAAATGGCTGAATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACA
GCTCCAGTATGACCAATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCTGAATGCTGTGCA
CCAGGCCCGAGTTTTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAAC
AGAATTAACCTCTGAGGAGAGAGCCCCAAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAGAAAA
ATGGGAAAGTCTAAATGCTGTAACTAGCAATTGGCAAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCT
GCAGGGAGCTATGGATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCCGTGGG
AGACTTACTCATTGACTCGCTGCAGGATCAGATTGAAAAAATCATGGCATTTAGAGAAGAAATTGCACCAATCAA
CTTTAAAGTTAAACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTC
TCGCCAGCTAGATGACCTTAATATGCGATGGAACCTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCA
GGAAGCCCACAGAGATTTTGGACCATCCTCTCAGCATTTTCTCTCTACGTGAGTCCAGCTGCCGTGGCAAAGATC
CATTTACATAATAAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAATGAC
CGAACTCTTTCAATCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCCTACCGTACAGCAATCAAAATCCGAAG
ACTACAAAAGCACTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAAGTTGAA
CCAAAATGACCAGCTCCTCAGTGTCCAGATGTATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAAAT
GCATAAGGACCTGGTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGG
TCGAAGTGGAAAAATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCAAAGGTCTCTTGGAAAGAAA
ATACAGATATCTCTTAAGGAAGTTGCAGGGCCAACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCA
TGATGCCATCCAGATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCG
CAGCTGCTTCCAACAGAATAACAATAAACAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACC
ACAGTCCATGGTTTTGGCTCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAA
CATCTGTAAAGAATGTCCAATTGTGCGGTTTCAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAG
TTGTTTCTTTTTCGGGTGCAACAGCAAAAGGTACAAAATTACATTACCCAAATGGTGGAATATTGTATACCTACAAC
ATCTGGGGAAGATGTACGAGACTTCACAAAGGTACTTAAAGAACAAGTTCAAGTGAAGAAGTACTTTGCCAAACA
CCCTCGACTTGGTTACCTGCCTGTCCAGACAGTTCCTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAG
TATGTGGCCAGAGCACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACA
ATATGCCACACGACTGGCCAGATGGAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAG
TGTGGAAGACGAGCAGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGCA
GAGCCCAGCTCAGATCCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAAGTGGAGAGGATCATTGCTGACCTGGA
GGAAGAACAAGAAATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTGCGG
TTCACCGCCAGAGTCGATTATATCTCCCCATCACACGTCTGAGGATTTCAGAACTTATAGCAGAAGCAAACTCCT
CAGGCAGCACAAAGGTGCGCTGGAGGCTAGGATGCAGATTTTAGAAGATCACAATAAACAGCTGGAGTCTCAGCT
CCACCGCCTCCGACAGCTGCTGGAGCAGCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCC
TCAGCATCTGCACTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCACACAGGCAGCGGGAGAGGA

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FIGURE 1599D

CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTACAGCACGTTTCCATC
TTGCTGCCCAATGTTCCAGCAGGCCACAGGCAATGTGAAGTATTCATCCGGCCAACCAATGTTTCCTGACGTA
CAGTGTTGCCCTTTTCAGCAAATGCCAATTCCAAGTTCATTAAATCAGAAGCTCCATGGCTCCTTGGCCCCACGA
TGTTGAGTGCTGACTGTGTGTTCTACTGAAAGAGTAAACACTGACTATCCAAAGAGAAATGGATATTTTGTTTT
TATAATAACCATATATTATTGTTTTCTTCTTCCCTTTCTATGCAAGTGTAATAATGAACAGAGAGGTATTG
AAATGGTAATACATTTGTACGGATTTGTATAATGTATACAGCATTGGGAAAGTGGGTGGGGGCTTTCTAATATG
ATACCGTCTTTTAATAACTATGACAAAGCTTACATAAGAATTAGAAGACCACTTTACATTTTTACATTCTTCT
GCTGTTTCATATTAACCTTGACAAATTACTTCATTTTTCTTTGACTCTTTTACCACAATGTTTTGGTTATTATA
ATTTATCAGCCATATGTTTATCAGCCATATAACCAACTAGATCCCAAATAGATCCATGTATTTGTTTCCGTGATT
TGGCCACATTAAATAAATTCATAAAATTCATAAATATCTTATATATACACACATATGGTTTAAGCTACAGCCCT
GTGTATGCCGTTTAACTTTATTTGACGTTGCCACTTACTTCTTTGCTGACCACTTGGATAACCGTAATAAAAAAT
CCTATAAGCCTAAATGGCATTTCCTTTGGGATATTTTCCTGCATTTTATTCCCTTTTTATATAAGTAGGAATTA
ATTATTTATTTTATGTCTTAATCTATTTGATAAAGAAGACTACATTATAATAATCTCAAAGATCATATTACCAA
GGTTGCCCACTTGAGCATATTTTCATTTTGACACAGAAACAAAATTTAGTACAACCTTTCCTAGTTCCCATGTCT
TGATTTTCATCATTACATGCACAGCAGACCTTTACCTATTGTGATACCAGAACACATCATTGTCTTTGGTTCCCT
TCAAAGAGAAATTTATTGTTGTTTTGTATTTTCAAGTCCTTAATAGTTCTTGAAACTCCTAGTTGTTTTCTTGTT
GAAAGCAGACACACATTTAGTGCACGGCTTATTTTACCTTTTCGGGTGAAAGATCAGATGTTTTTATACCCTTCAC
TTGATCAATATATTTGGAAAGAATGTTTATCAAAGTCTATGTCACTGCTTCTACAGAAGAATGAAATTAATGCT
TAGGTGATGGTACCTCCACCTACATCTTTTGGAGTGCAATTAATGATTTTGGTTTAGCTTCTGATTTAACA
TTTAATTGATTAGTTTAAACATGTTACTTAATTAGCAATGTAGAGGAACCAAAAAAGGTGAAAATAATATGT
TTTGATTCAAACCTAAAGACATAAAACATAAAGACATTTTAACTTTGGGTTCTCTTTAGCTGGGATCTGGCCAG
AAGGAGGCTTAAAGTTAGAAATTGCTATTATTTTGAATAGGTTGGGTGGGTGGGGGGCAAGGGTGTCTATTTG
CAGCAGAGATATTTTGAAGAAGAAAATGTTTTATATAAAAAGGAAAGCCATGACCACCTTTCTACCTCAGAT
CCATCTTCATCCATTGCATTGAAACTGCTTTATGCTGCTGCAGTCTGCAAAGTCTAGAGCTTTTATCAGGCCAT
GTCATACCCAAGAAAGCACCTATTTAAAGAAAAACAATCCCTGAGCTCTCAACTCCAAGTTGTAGATTGGTG
TCTTCCTTGTTCTTACTTTAAAAGTCAATGTGTTAATTTTTTTCTGCCTGTATTTGTATGCAAAATGTCCTCTA
TCTGCTATTAAGAAAAGCTACGTAAACACTACATTGTAACCTTCTAAGTAATAATAATAAAGAAATATAT
TGCAGTAACAATGGGAAGTAAGTATGTAGTTCTTTTGAATATGTGGTAAAGAACTAATCACAGACTATCATCTA
ATCTGGTTACATATTGTATTTTTCATCCTGAATAAAAGTAATTTTAACTAAAAAAATCTATGTCGGGTGCGG
AGAAAGAGGTAATGAAATGGCAGGAATTCAGATATCAGCTTATCATACC

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FIGURE 1600

MAKYGEHEASPDNGQNEFSDI I KSRSDENHDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTG
 TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQT
 NSEKILLSWVRQTTRPYSQVNVNFTTSWTDGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIE
 KLLDPEDVAVQLPDKKSIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQSTAPEEEHESPAET
 PSTVTEVMDLDSYQIALEEVLTWLLSAEDTFQEQQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
 LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRHLHDVLMELQKKQLQQLSAWLTLTEERI QKMETCPLD
 DDVKS LQKLL EEHKS LQSDLEAEQVKVNSLTHMVVIDENS GESATAILEDQLQKLGERWTA VCRWTEERWNR LQ
 EINILWQELLEE QCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRR LAILKEDMEMKRQTLDQLSEIGQDVGQL
 LDNSKASKKINS DSEELTQRWDSLVRLEDSSNQVTQAVAKLMSQIPQKDLLETVRVREQAITKKSKQELPPPP
 PPKKRQIHVDIEAKKKFDAISAE LLNWLKWKTAIQTEIKEYMKMQDTSEMKKKLKALEKEQRE R IPRADELNQ
 TGQILVEQMKGELPT E E IKNVLEKVSSEWKNVSOHLEDLERKIQLOEDINAYFKQDLELEKVIKTKEEWVKHTS
 ISESSRQSLPSLKDSCQRELTNLLGLHPKIE MARASCSALMSQPSAPDFVQRGDFSFLGRYQAVQEAVEDRQOHL
 ENELKGQPGHAYLET LKTLKDV LNDSENKAQVSLNVLNDLAKVEKALQEKKTLD EILENQKPALHKLAEETKALE
 KNVHPDVEKLYKQEFDDVQGWKVKLVLSKDLHLLEEIALTLRAFEADSTVIEKWMGDKVDFLMKQQAAGDDA
 GLQRQLDQCSAFVNEIETIESSLKNMKEIETNLRSGPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQE
 KANLKKDLAEMQEWMTQAEEYLERDFEYKSPEELES AVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSSG
 QELTSELNVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLTNLTLEERMKSTEVLPKTD AVNEALES
 LESVLRHPADNRTQIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLR ETDQMLQVLQ
 ESLGELDKQLTIT YLTDRIDAFQVPQEAQKIQAEISAHELTLEELRRNMRSQPLTSPE SRTARGG SQMDVLQRKLR
 EVSTKFQLFQKPA NFEQRM LDCRVL DGVKAELHVL DVKDVPDVIQTHLDKCMKLYKLTSEVKLEVE TVIKTGR
 HIVQKQQT DNP KGMDEQLTSLKVL YNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEG
 LLGDLDT EISWAKNV LKDL EKRA DLTNTITESSAALQNLIEGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
 QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
 VEPKLAELNRNFEKVSQH IKS AKLLIAQEPLYQCLVTTETFTETGVFFSDLEKLENDIENMLKFVEKHLESSDEDE
 KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQ LLLLHTRYNKIKAIP IQQRKMQLASGIRSSLLPTDYLVE
 INKILLCMDDVELSLNVP ELNTAIYEDFSFQEDSLKNIKDQDLKLG EQIAVIHEKQPDVILEASGPEAIQIRDTL
 TQLNAKWDRINRMYSDRKGCFDRAMEEWRQFHCDLNDLTQWITEAEELLVDTCAPGGS LDKELARIHQQELEVGI
 SSHQPSFAALNRTGDGIVQKLSQADGSFLKEKLAGLNQRWDAIVA EVKDRQPR LKGESKQVMKYRHQLDEIICWL
 TKAEHAMQKRSTTELGENLQELRDLTQEME VHA EK LKWLNRTELEMLSDKSLSLPERDKISESLRTVNMTWNKIC
 REVPTTLKECIEQPSSVSQTRIAHPNVQKVVLSSASDIPVQSHRTSEISIPADLDKTITELADWLVLIDQMLK
 SNI VTVGDVEEINKTVSRMKITKADLEQRHPQLDYVFTLAQNLKNKASSSDMRTAITEKLERVKNQWDGTQH GVE
 LRQQQLEDMIIDSLQWDDHREETEELMRKYE ARLYILQQA RRDPLTKQISDNQILLQELGPGDGIVMAFDNVLQK
 LLEEYGSDDTRNVKETTEY LKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQEAETT VNVLVDASHR
 ENALQDSILARELKQMQDIAEIDA HNDIFKSIDGNRQKMVKALGNSEEATMLQHRLDDMNQRWNDLAKASASI
 RAHLEASA EKWNRLMSLEELIKWLNMKDEELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAV DQARV
 FLADQPIEAPEEPRRLQSKTELTP EERAQKIAKAMRKQSSEVKEK WESLNAVTSNWQKQVDKALEKLRDLQ GAM
 DDLADAMKEAESVRNGWKPVGDLLIDSLQDHIEKIMAFREEIAPINFVKVTVNDLSSQLSPLDLHPSLKMSRQLD
 DLNMRWKL LQVSVDDR LKQLQE AHRDFGPSSQHFLSTSVQLPWQRSISHNKVPYYINHQTQTT CWDHPKMTELFQ
 SLADLNNVRFSAYRTAIKIRRLQKALCLD LLELSTTNEIFKQHKLNQNDQLLSVPDVINCLTTTYDGLEQM HKDL
 VNVPLCVD MCLNWL NVYDTGR TGKIRVQSLKIGLSLSKGLLEEKYRYLFKEVAGPT EMCDQRQLG LLLHDAIQ
 IPRQLGEVAAFGGSNIEPSVRSCFQQNNNKPEISVKEFIDWMHLEPQSMVWLPVLHRVAAAETAKHQAKCNICKE
 CPIVGFYRSLKHFN YDVCQSCFFSGRTAKGHLHYPMVEYCIPTTSGEDVRDFTKVLKNKFRSKKYFAKHPRLG
 YLPVQTVLEGDNLETPITLISMWPEHYDPSQSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTTG SVEDE
 HALIQOYCQTLGGESPVSQPQSPAQILKSVEREERGELERI IADLEEEQRNLQVEYEQ LKQHLRRGLPVGSPPE
 SII SPHHTSEDS ELIAEAKLLRQHKGRL EARMQI LEDHNKQLESQ LHLRLQLLEQPESDSRINGVSPWAS PQHSA
 LSYSLDPDASGPQFHQAAGEDLLAPPHDTSTD LTEVMEQIHSTFPSCCPNVPSRPQAM

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FIGURE 1601A

CGCCCGCCCCCTCCCCGCGCCGCGCCACGGGAGGCGGTGATCGGGGCGGGGCGGCTCGGCTGCGCCGAGAG
CGGAGACACAGGCTCAAGATGGCAGATTCCGACTGAGGCTGGGGGGGCGAGCTCGCGCGCCGCTTTCCCGTCCC
CGTTGCCATGAACCGCGGACACCCCGCCCCGATGCCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTT
TCTCCCCTCACACCCTTCAATCAAGTGCCTTCTGTAGTGTGAAGAACTGAAAATAGAGCCGAGTTCCAAGTGGG
ACATGACTGGGTACGGCTCCCACAGCAAAGTGTATAGCCAGAGCAAGAATCCCCCTGTGCGAGCCAGCCACCA
CAACCGTCAGCACCTCCTTGCCGGTCCCAAACCAAGCCTACCTTACGAGCAGACCATCGTCTTCCCAGGAAGCA
CCGGGCACATCGTGGTCACCTCAGCAAGCAGCACTTCTGTACCCGGCAAGTCCTCGGGCGACCACACAACCTAA
TGCGTCGAAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATCGAGA
ACACAAGCAGCGTGCAGATCATCGAGGAGCATCCACCCATGATTGAGAATAATGCAAGCGGGGCCACTGTGCCA
CTGCCACCAGCTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTATCAGCTGGTGCAGCATG
AGGTGCTGTGCTCCATGACCAACCTACGAGGTCTTAGAGTTCTTGGGCCGAGGGACGTTTGGGCAAGTGGTCA
AGTGCTGGAACGGGGCACCAATGAGATCGTAGCCATCAAGATCCTGAAGAACCACCCATCCTATGCCGACAAG
GTCAGATTGAAGTGAGCATCCTGGCCCGTTGAGCACGGAGAGTGGCGATGACTATAACTTCGTCCGGGCTACG
AATGCTTCCAGCACAAGAACCACAGTGTCTGGTCTTCGAGATGTTGGAGCAGAACCCTCTATGACTTTCTGAAGC
AAAACAAGTTTAGCCCCCTTGCCCCCAAATACATTGCCCCAGTTCTCCAGCAGGTAGCCACAGCCCTGATGAAAC
TCAAAGCCTAGGTCTTATCCACGCTGACCTCAAACCAGAAAACATCATGCTGGTGGATCCATCTAGACAACCAT
ACAGAGTCAAGGTCAATCGACTTTGGTTCAGCCAGCCAGCTCTCCAAGGCTGTGTGCTCCACCTACTTGCAGTCCA
GATATTACAGGGCCCCCTGAGATCATCCTTGTTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTG
TTATGTCAGAATTGTTCTGGGTTGGCCGTTATATCCAGGAGCTTGGAGTATGATCAGATTGGTATATTTTAC
AAACACAGGGTTTGCTGTGAATATTTATTAAGCGCCGGGACAAAGACAAGTAGGTTTTTCAACCGTGACACGG
ACTCACCATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAGAAG
CAAGAAAGTACATTTTCAACTGTTTAGATGATATGGCCAGGTGAACATGACGACAGATTGGAAGGGAGCGACA
TGTGGTAGAAAAGGCTGACCGGCGGGAGTTTATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGA
GAATCACTCCAATCGAAACCTGAACCATCCCTTTGTCAACCATGACACACTTACTCGATTTTCCCCACAGCACAC
ACGTCAAATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCA
AAACCCCTTTTCATACGACAGTGGCCCCCAGCACGTCCACCAACCTGACCATGACCTTTAAACACAGCTGACCA
CTGTCCACAACCAGCCCTCAGCGGCATCCATGGCTGCAGTGGCCAGCGGAGCATGCCCTGCAGACAGGAACAG
CCCAGATTTGTGCCCCGCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCAAGGCTTGCAGG
CCTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAAAATGCAGTTCCCATCGTCACTCAAGCCCCAGGAG
CTCAGCCTCTTCAGATCCAACAGGTCTGCTTGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTC
CCCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTATTCCCGAGACCA
TGGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGATGCTCACGGAAGCCATTATAATCCCATCATGCAGC
AGCCTGCACTATTGACCGGTATGTGACCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGGCCACGTGATGC
GGCAGCAGCCAACCAGCACCACTCCTCCCGGAAGAGTAAGCAGCACCAGTCATCTGTGAGAAATGTCTCCACCT
GTGAGGTGTCTCTCTCAGGCCATCAGTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCT
GTGCCATGGTGCACAGTAGCCCGGCTGCAGCACCTCGGTACCTGTGGGTGGGGCGACGTGGCTCCAGCACCA
CCCGGGAACGGCAGCGGCAGACAATTGTCAATCCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCA
GTGACACGGACGAGGAGGAGGAACAGAAACAGCCCCCACCAGCACTGTCTCAAGCAAAGAAAAAACGTATCA
GCTGTGTACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGCAGCAGCGTG
CTGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACCA
TCATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGGCAGTCAACACCA
GTCACCACTCGTCTCTTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCT
CATCTGGAGCCATCACCTACCGGCAGCAGCGCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCC
AGGCTCAGCAGCACATCACCACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCTACATCACTCCACCATGG
CCCAGGCTCCGTACTCCTTCCCGCACAACAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTG
CCGCTGCCACCTCCCCACCCAGCCCCACCTTACACCTACACTGCGCCGGCGGCCCTGGGCTCCACCGGCACCG
TGGCCACCTGGTGGCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCC
ACCAGGTCCCCGTGAGCATGGGCCCCCGGTCTGCCCTCGCCCAACCATCCACCGAGTCAGTATCCAGCCCAAT

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FIGURE 1601B

TTGCCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGG
TCAACCACTAGTACCCTTACATATTAAAACACTGGAGGGGAGGGTGGGAGGGAGGGAGGGAGAGAATGGCCCGAGGGAGG
AGGGAGAGAAGGAGGGAGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAA
TGCAAACCGGGCAGGTGCGGGGGGGGGGGGGCAGAGGGCAGGGGGACGGGGTGGGGACACCAGTGAAACTTGAA
CCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTTAAAAGGAAGGGATTAAAGAGGGTGGGAAATCTA
TGGTTTTTTATTTAAAAAAGGAAAAAGGAAAAAAGGTCAATAACAAAAACCCAGCTCAAGAACCCATTCT
ACGCCAAACTGGAAAGGAGAAGAGAGCAACAGGAAGATTCCAGAAACGGGGGGCCCCAGTTTTTTGAAGAACTTTA
TGAACTTTTCAAAGATTATTTTCATATGGCAGCAAGTGATACGGGAAGACTGCTGTGAGGGACACCTGATATGGAA
ATCAAAATAGATTTTTTAATTAATTGAACATAAGATTAGGGATTTTTCCAGAACTCGAAAGGGTCAACAGCCCTCC
AGAATGTGCGGCTGCAGCCTGAGGAGGCTGATGTTTGGAGCTGGTGTGGGATTGGCGAAGCCCAGTCCGGGCTCC
CTAGTCAGGAAAGACGGGGACGCGCCAGGCTGCTGGAAGGCCCGGGGGCGCGGGGCGAGTTTTCTTTTTCTGA
GCACTCTGGATAAATCCCTAAGCAACGTTGTTTCTCAAATGTCATTAATAATGTGTGTTGCAAACCTTTAGGTTTT
TTTCTTTTTCTGAAAAATGATTTTTCTTTGAAATCCACCCCTAGTCGCGTAGCGTAGGGCTAGCGGTGCTCACAGA
CACCCCTAGTAGAATGTAGCACTCAGCACCCCTTGCTCTCTACCTTGTTCAACTCCAATGATACCAATAGAATAT
TCCTCAATGTAATTGCACAAAAAAGCGATATAACATAGGCATGTAACCAATGTGGCGGTGCAGGTGTGCGGGT
GAGCGAGCACGTGTGGGTGTGCACGCGCGCCCTCCCCGCGTGGCCCTCGGCGCGGCCACCCCTAGCTGGCGCAGT
CTTGACACTGCATCCTTCCCTCCTAGTGCCTTACCGAGCGACAGACGCGGCGTGAGGGTTTACTTCCACTGGTAC
TCCAAGAACTGAGGCTAGTCAGACACAATCTCAGCTCTTCTGTTGTGCTGTTGTAAACAGTTTACGCTGGCCTTT
TTTTTTCTTTTTCTTTTTCTTTTTTAAATGTTAATGCCGTTGTCTTTCTGGGCTGTTTGTAGCGGAAGGAT
GCCAGGGAAGCCAGCAGGAGCTAGGAGAGAGTCCGTGGATCTCGAAAGAAATATGGGAGACAGATGCCCGCGGG
TGCGTCTGGAGATGGGGACGCGGGGAGTTGAGTTGTGGCAGTAGTTGAGTTGTAATTTGTGGGCGGAGGCCCAGA
GAGACTCCCCACCCCTTACCCCTGCCCACTCTGTCCCCAGTTCGCCCATTTGTGAGGCCAGAGGTTTCCGACT
GTTGGCCTCGCCAGGCAGCCGTCTCCCGCCCCAGGCGGCATCCCCAGTCCCTCCCGCTCCACGAGAGCCTGGA
GCTCTCAGCCTCGCCCGGGGCTCCACTCTCTCTCCGCTCCCTGGGCTGTTTTGCTCTAACGATCTTGCCAGAT
CCCTCCCTCTGTAGACAACCACCAACCTCTGTTTGTGTTGAATTCTCTCTCACATTACCCAGGTCTGTCTAAG
ACATGATTTTGGTTTTTGGTTTTCTGAGGGTTCTAGTGGGCAGAAGGTTGGAGGGACACTTATGAGGGTGGCCGGGG
GTCTGACGCTGCACTTTGGAAAACTCACACAGTTGAATTCCAAAGAAATCTGCCCTTTGCCCTCTTTGCACCT
TTGATACATTCTGGAAGTTTTCTCAGGCTTTGGACACTTCTGGGGATGGAGGTGTGGAGAAGTGGGGAGTTCCCT
CTCTTCATAGTAAATACTCTGAAATATGTAATGTGAATGGCAGGAGAACTGGCCAAGGATGGGGCCGAAAG
GGTGGTTCTAATTGTTTGTCTGATGTTGAGTCTTTAGCTGACCCACAGGCAGGTTTCCAAGGTGCAAAGAGA
TCTTTCCGAGTCAGCGGCCCATCCTCATCTCCTCCCTTTACTTCTCACTGTGCAGTCTCCCTCAAGGATC
TACTGTGAAAGGTGTGTTGTAGTGATATCCAACCTAAGTACGTAACGAAGTCGTTACTTACTCTTAGCTGTGA
AATAACTCTGGAACTTCCCCACCCCAACCATAAATTCTTACTTATAAAGAAACAGGTCCCCAACTGGAAACAG
CTTAGTCCAGGCCTCAGCGAGAAGGAAGGACACCATGACTGCTCCATGCTGGGCACAGCCGGGCAGTCTTGCCAA
GTGCTGCTGGAGGCTGTGCCGGAAGAGGCTGCAGCAAGGAGATTCCCTTCCCTCGGGCCATTATCAATACTG
TCTTTATCTGGAGGTGGGGAAGCGCAGCCCTCTGAGACAGCAGGACAATGGTCAGTTTCAAGAGGGTGGAGGCGAG
CAAACGCTTCAAGGACACAGAAGCCAGAGGACCCCCCCCCCGCCACAGCTGGGTGAGCCTGGAAAAATCCATCT
ATTAGGGACTTTTTGGCAGCCAGATGGCAGCAATAGCCATTAGGTCTCATCCGAGTTCCAAGTCTTGGCTGCA
AATGAGCCTCAGTTCCCTTACTGGAGAGCACCCCGAGATTCTGGGCACAGTTCAATTTCCAGCCCTTTCTAGAT
CTGATCTTTTAGGGGGAAGACAGCTTAAATGTTCTTTTTCAATTTTAAAGAAATATTCTGTCTGCTTAAGTTG
GAGGCTACTTACTCTTTACCTGACATTTTCTTCTTTTATTCTTCCAGATCAGGAATGAAATTTCCATGCTGC
TCATAAAGATAATATTATTGTACTAATTATTTTATTACCATGTAATTATGATCATTATGTTGATATTTTAGTC
AGGGTTTTTAAATGCACATTTATCCAAGTATCTTTGTGTTTTCTCTTTAATATTTAAACTTATTCTCTGTGAG
TATATAAGTAGACTGGAGGGACATCCAGATGTCCAGTTTTGTGAGGCCAAAAAAGGAAAGACTTAGGAAGT
AGGAAAATTGTTCTGTCTATCTATCCCAACAAGAGACGTCAAGAAAGATCCACCACAGAACAAAAGTTTTAAG
AAGAATCAAAGCCTTGATTGGGCTTCTGACAACATGGTCACCATCAAGGTTGTCAATTTCTAGATCCAGAGGCC
TGGGATGCGACGTGAGGTGGCATCTCATGGGCTCGGGGAATGTGAGTCACTGACTGTCCAGCCCTTAGCCAGCT
TCTCTCCACATCCTCAGAGCTCTCTGTGCTTCTGAAATCTGTTAACTAAATCTTTGGCTTGCTCTGGTATTT

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FIGURE 1601C

AAGCAAGAAAAATTCCTCGCAGAGGTGACCCCATCCGCTTCCCCACAATCCATCCTTTTGCCATCGGCGCACCTG
GGGCGTGGCTTAGGTTCTTCAATGCAGGGACATTTGCCCCCTCCAGAAGCTGCTGGGCACAGTGAGGTGGCGTA
AGAGTGACTGGCAGGTGGTACCTTCCCCAGGAAATTTACCACACCACCCAGTTCTCAGCCTGCCCCCTCCCC
TGTGATGCATGCCCCAGCACCCAATTCTAGCCAGCTGGAAGTGGGTGGAGGGACAGCAGGAGGCCAGAGAAACC
CTGAACAAAGCTGGGCGGCTGCTCAGGCATCACAGGCTGCACCCCTCTGAAAGCATCCCCACTGGGCTCCGGCC
ACATCTTCAGTGCACTGTGCTGTGTGCGCTGGGTGCTCACACGCTGTCCCCAGACCCACAAAGTGCTAGGCCCCA
GTTGAAGAAAGGGGTGAAATAGCCAGCTTCACCGAAGGGAAGGAAGGAAGTATTTGGGCGATGCCAGCCCCACA
GACGCTCAGCAAACATTAGTGACATTCTCCTAGTCCTCACCAATGGCCTCCTTACCCCCATGCATGGAGCTG
CCACATCAGAAGCCCCAAGAGAAGCTCCCTGCAGGAGAGGCCAGCTCCCTGGATGCCCAATTGCATACCTGGCCG
AATCTGCCATTGAGTCACCTTAGCAAATAGGCTGCTGTCACTAGGACCAAGCTCTCAAGCAGAGGGATGCCAACC
TAGTCCTTACTTAGCCACGAATCATCTAGAGCATCCTCTAGTCTTTTGTGGGCTCCCTCCTTCCCATTTGAAGA
GACATTGTTTCAGAGGAAGAGGGGAAGATTTGAAATGTCAGGTACGGAGGAGTGTTAAGTGGAGCCTGGTGAAC
CGCAGGGCAATTTGCTTCTGCTCACTGGGTCTGACTGGCCCTCTGGACGTGGGCCCCCATGTCTCTGTGCTTA
GGGCTCTTCATGATGTTTTGGATGTTTTCAAGGGAAGTGGGTGAGCAGATCAAGGGGTGGGAGAGTCGAGGCTT
GATTCCAGTTAATACTGTGAAGTGGAGCGTCCGGTCAGTGGAAATTCAGAGGAAAAAGAAGGGTTGGAGCAAAGCG
GCATTCATCTCCTGGACTGTTAGCCTTTCTAGTCTTCTGGTGGCTGAGGTGTTACGGGCTGGGGAGCCAGCT
GACCTTTGTCTCTTCAACCTAGAAGACTCAGCCCGCCAGACACCAACGTGTGAGACGGATGGACATCAGGAAG
GGAAGGGGAGATTAGCCCCAAGTGTGACAGAACGATTTCCCTTGGTTGGACCTTGGGAATGGCAAACACTCATAT
TGGAACAAGCTTGGGGTGGAGATTTAGGCCGTGTGAGCGTGTGTGAGTGAGTGAACAAACTTTCTTGAAACT
GGAGGGAGGAGATGAGGAGCTTCGGGAAGTATTACTGATGGCTCATGGTTGAGAGAGCGACGTGGGGAGCCAGC
TCGCCCCAGCTTTTGTCCAGGTTCTCTTTGTCTGATGCTGAGGGCAGGGTGGGGTGTGGGACCACCACTCTTGT
TGGCCTGTCAAGTAGACCCTAGGACAGAAATGGAAGAAGGAAATGGCTCGGTGCTCTCAACTAGCAGAGAGAA
TTGAGGAGAGGTAAGGGTTCCCTTCTGCAGGCCAGCCTGGGACTCCACAGCGCCAGCAGGAGTGACTTGGCCACAA
GACATTCCAGCCCCAGGGACTTTGCAGGCTTCATTCCCTGTCTGTGTCTTTTCTTCTGTTGTTTACAGACT
TCTGATGGGGAAGCTTCAAACTTGAGCAGGCCAGAGATGTCTTACCAAATTGGAAGGAAGGTGAAACTGTTCC
TTTCTTTAGCCAAAGAACCCTTCTCAAAGACGCTCCAGAAATGGACAAATGGCCTTCCCTTCGTTCCTTTCCA
GGCAATAATGACATCATTAGTGATGCAATTCTATTTGTCTTTCTCTTCTCTGTCCNNNNNNNNNNNNNNNN
NNNTGCATTTATTTCAAACTGTGCTATTCTTTTAAGAGGAGTGGAGGTGACCCCTTCGATGTGCTGCTATCGG
GAGACAAGGTGCCATACCAATACGTGGGCTTGACTAATCCAGGCCACCATGGGAGAGAGCAAAGCAGGGCTGCC
AGGAGTTCAAGTGCATCAAGGGCGTAGAGCACGGGGGGCTGGGCTCGGAATAGCAGTACTTTTCCACTTTGATG
CCTTAGAACTCTCACTTCTCATCTCCACAGACCAGACTCAGTAAAATCTCAGGCCACTAGAGAATGGAAGGCGGT
GAAACAGGATTTAAATGCAAAAAAACCTATTGGAGGCTTTTGGCACCCTGGCTCACTAGAGGGAGCCAGCATAG
TAGAGGTTTCTTGTGTCAGCTTCTGAAAAGTTCAAAAAAGAACTCCAGGCCGTTCTTCCCTCAAACCCAGTGA
GAGTTTGAGAGAAGTGCCCCCTGCAGGGCTCCCGTCCAGAACACCAGCACCAGAGAGGGTCTTCCCGATGCCC
CCCGCTGGACTTGCCCAAGCCTCTGGGAGCCCTCATCTCAGATCCCTGTGTTGAACATGACACTGACTGTCCCT
TATTTGTTAAAAATTTGCAATATCTCTCAAGTAAATAATAGCCAACATTTGTTGAATGCTTTTATGACTCCCGGGC
TAAGGCCTTTATGAGCGTTGTCTCAAGGGGCCCCAACAGCCATCCACAGGGAGGGGGATAACAGCCCCATTTA
TAGATAAGGGAGCTGACCGGATGCTCTGAGAAGTGGCAGGTGTGAAGGAAGGATAAAGCAGTGATGGGCCAGAA
TCCCCAAGGTTCCCTTTTTTGTTCATCAGGCCCTTCTGAGATGTGATTTTTAATCTTTTAACTTTTTTTAATTA
ATAGCAATGCGTGGCCTCATATTTCTATGAACATTTAGTGATACTCCCGCTTCTGCATGCCACACACTGTGCT
GGGAATTGCTCATGGGTTGTCTGTTTCATCTTCTCCGTAGCCCTGTGAGATCGGCAATATTAGTCCCCCTACAG
CCAAGGAAACTGCCAGAGCCACACAACCTTTGAGGGGCGAGGAGGGCTTGAACCTGAGTCTGCCAGCTCCAGA
ACTGAGCTTGAGCCATTAGCCACAGCTGTCTCCTGCATGTCTGAGCAAAGAAAGGCCTTTACACAGCATCACCC
TGTGCCATCCCATGCACCGTGGGACTCAGCTAAAGGACTGTGCAAAGAGGGGGCTCCTGAGTTGGATTTAGGCAA
AAGGGGCAGAATTCGTTTGATTTTTAGAGAAAATCTCTGGAGAGTTTCTTTTGATTCATAGAATTCCTTTTAGAT
TTCTTTCCAGCATACCAACTAGCTTTAGTAGTGCTGTACAACCAGCTCTTATAAGTAAGAGTGAAAAAGTATTC
TTTTCTTCTTTAAAAAATAAGTTTTTCTTGCTTATAGTTAATCTAGAAAGGCAATACTAAAGGTATATATTTTT
TTCAAAATGCTATTTTTTACTGCACTTGATAATTATCCTGACAGCTCTGATCTCTGTAATAGATTCACTCTTCAG

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FIGURE 1601D

CTCTGGGCAGAACCCAGAGGCAGGGTTTCACACCAAATTTGTAAATACCATATGTGGGTCTGGTGTCCAGGAACTTT
TTTCTTTCTGTTAAAAAAGAACAAAAAAGAACAAAAAAGAGTAGAGGTGGAAGAAAGACAAGACTTAG
AGGAACAAAAGAAATGTTTTCTTTGAGATACTCTCTCAAAGAAATAGCAACAATTGTATAAACAGGAAAACCAG
CCAGCTTTTCATGATAAAAGGAAGGCGTGTCTCTTGCCCTGGTATGAGATTAAACAGAAATACAGATGCATTTTTAT
TTTGATTGAAAGATGGTGAGAATGTAGAAATGCTTAGGACTAGATTTTTAATTTTTTAAAAATACTATTATCATT
TATTATGAAATATTTGTTTCAGTTGTTTTGAGTGGGTTTCTTGTCCTTTTTTCATTAAAACTTCTTTGTTGAC
TGGCTCCAGGCTTGTTCCTAAATCTTAGGTAGTTTACACAAGTCTAGAATCTTTAGAACTTTAACTCCAT
TGGAAGCAAACCTAACTAATCGGAGTTTGAGATCCTGGTTGGTTTCAATAGGTATTCTGGAATTCTGGCAGAAC
CCTAAAGATTTTTTTTTTTTGAAGGTTTTAGATACATTATCTTACACAACTGTGACCTAATGGCAATAATT
ACCTCAAATGTGGGCATTTCCTGGTTTTAGCCTTTTTTGAAATCATGTAGCCAGCTTGATCTTGGAAATTTAAA
GACTATGAATTCCTGTGGGCTGAAAATAATGATTACTTCATACCCCGGTCATCGTTGCTTAAGTGAATTCCTGA
AAATAGCTCATCTTTACAACAAAAATTAAACCAAGGAAGAGATTATCTTTGTGTGTTGTACTCAAATGCGATGT
TCAAATGCACATGTTAAGTATATATGTTTTTAGTACTGTAAATGCTGTAGCCTTCTAAGCTATCAAAACAGT
CACATTTTAAATGAGTAACTAAACAATTGACTGTGGATACTTAAGCATATTTCTGGCTACGTTTTATAGTTAAA
GTGTTTTATAGTTTACATTTAGACTGGTACTTTTTAAAGAAAAGTTCTGTTTATACTGACATCCGCAACCCCA
GTGAATGCCCTCTTAGTTGAGGTTGTGTCTCCCCCAAGGCAAGTGTGTGTGCCAGACTCTTCTGTAGTCCAGCA
TGCGCACTTCCCTCTGGATTATTACTTTCCACGTGAAGTCAAGAGAACATGAAAGGCAATCCAGATGGAGGGAAA
AGGTGTGAGTCCGACGCCCGGGCCAGATGCGAAGGTCTCATGCGTGTGCTCTAAACACTTGTCTTCAAGGCCCTC
TCTCTGACATCTTGAAGAGTCAATGAGAACAGATAACCTGGTTCAATGATTTTTGTCTTGATTTGAATTTTAA
CTTATTAATAGATCCACTGATTTCCAGGCACCAGGAGTAGAAGAGACTGGGATTCAGGTGACCATGAAGGCACA
GCTGCTACTTCTGGGCCGGGGGTGATATTTTGATCAGCGTTTTGTAGGGGAGGACCATATACCCCTATTTCCCATG
GTCGCTGGCTGGGTTTTCCATATATCTGCTGTCTTTATTCTGTTTTCCCTTAAAGCAAAATCAATGTAAAGG
CTATGTTTACGTTTTACTCATTTGTCCAGCTTAGACTCAAAGTCTAGTTCGGTGGGAGGGGACCTTAGCATCCTC
TCAGAGATGGTCAGGGCTGAGCAGGAGGAGGCAGAGACAGAGGGGCAGCTCAGCCTGGTCCATTGAGACCCACTC
TAAACAGACATCATATTTGGAACAAGAAGATGCTTCGAGACAGGAATGGGCCCACTGTCTATGCAGAAACAGACT
GGGGGAATGGCAGTTTCCCTGAGTCTTGGTTTTCTTTATGTTTTCTCTGTGCCACCACCAAACCTGCAGAGGACC
TGCTGTGACCTAAAGGGCATTTCCTTTAGCAGATAAGACCTTGAAAACCTGCAAAACACCTGGGACCAGGGAGCTTT
TAAAAAATACAAAAAATACCACATTTGCTTTTTCCCTGTGAAGTGTATTGACAGCGTGTCTTAGGACAGTCTT
TTGGTGGAAATGTTACTGTAAAATAGTTTTCATCTCACCCCTCCTAATCATACTCCCACTTTCCGTGTTGTGTGG
TGGTGTGCTGTTTTTCTTTTACATGAATTAACCAAATGAATTTTGTGTCTGTTTTTGGGGCTTATATTTTT
AAAACATAGAAATTGCCTTTTGTTCATTTGAAAAGTAAGTATGTTGTATCTGAAAAGGGCTCTGCCTCTGCTCT
CCCTCGCTTCTTTGTAACCAATCTCCAAACGAATCTCTCTGGCACCAGCCCTTCTTATATAGGGTCACTGTC
CCCGGGGCCACCTCTGCCTCCACCTGTGTCTCAGCTGCTGCTGGGCCAAGGCACCCAGGACTCCCAGAAAGCGC
GAGAGCCAGCAAGAAGGCCCACTCAGCCTTGAGACTGGTGGTCACACCTCCCTGTGACAGTGCCTGCTGGGCT
GAAGGGGCAATGGATTGTCTATTGTTGAAATGTTTGGCTCAGGTTATAAGGAGGAACCTTGGGAAGTAGAAAGTGA
CTTGACCATGTGCATCCTTGGTAGCTTCTGTAACTAACAATGGAACAGAGAGCACACCCCGCCCGCCCGCAC
CCCAAGCAGATGTTCCCGTCAGCGCTGCCCTGAGTCAGTCCGTCCCGGTTTCTGCTCTCCTCCCTTTTGTGTTT
CTGCTCACTTCAAGCTTCTTCCATGGACTTTCCAGGGCACAGTCTCTAGCCCCCAATCATCTCTTCATCCT
CTGTGTGTGCATTTTTTTAAACCAATGAAATAGACAAGAAAGTCATACTTTGGGGCAGCAGAATTTCTAATTTAG
TAGAATCACTGTATAGAGATAGATGTTGATATATATGTTTGTGTATATATCAAAACCAATTTGGATAGGAGAAG
TATAGCTTTACAGATGAGGAGAAGGAGCTCTTTAGAGGTGGAGTCAAGACTGGTGTCTTGGACGTGCATGGGCT
GTGTCCCAGGCCACTCCGCACACATGGGGCTGAGGCGTGGCGCCGGGCCCTGTCTATCCACCTCACCACGGCAGA
GCCAGCAGGCCCTGTAGGGTGTGCTGTCTCACTGGGTCCCAGCTTCAAGCGCATCAGTGGGTGACGGGGGC
AACAAATCAGAGTGACTGGAAGTTCCATCCCGTTTTGCTTTGACCACGTGTACTGAGCTGCAGCCTCTGATACT
CTGTACGTTTTCCAAAAATGGTATCCATTAGGATAGAAAGAGAATGGATCTGCAGAAATGTTTACCTTTCAACTG
CTCATGAATTCAGGACACTGGATAGAAAGACTCACTCCCCAAATGAGAACAGGGAAGAGGAGACCCGGCGACAC
TAAGTCAACAGGTCCAAGGAACGTGGCTCCCTCCCCAGGGTCATCTCACCTAGATCTTCTCTCCAGGTCTCT
CAGCTCAATCTCAATAACCTATGAAAGCCCTGGTCTGTTGTGTTCTTCCAGGTACGGTTTCTGTAATAAAAAAG

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FIGURE 1601E

TGTTAATCCATGTTAATCTGTGTGAAAATTATTGCGTGCAACAGTATTTTCTCGGTACCTCTTTTTCCATATG
AATTGTCCCTCTTTTTTATTTATAAATGTCTACTTTTGTTTTTTTAAAGACAAACCAATGTGTTGTAGACCTATA
TGTAACCTATTCCTTAGTCTCATATTATAGGTATGTTATAAGAATGGATATTTTACTTGGCTTTAGAATGTTTA
CAAGAAACTAATTCTTAACTGATCAAGTCCTTGCTACTAAAATGCTTGTTTTCATCATGACGTCGTGTGCT
TCTAAATTAATCATTTTCGTTGTAGAAAAATGGAGTGAATTTATATTAGTCTTGGAACTAATAATAGCATTGTA
AATTTATGAGATGATTTTAACAGAAAAATATAGAAGAATATAGTTATTTAATTGTAATATTACTAACGTAGG
GTGAGAAAAAGGGGGGGGGTCCCATTTGTTGTTGAATATGTTATAGCTTGTTACTCATAGTTTCTTTTTGATCAT
TTTTTCGGTCTCCGAGGTGAAATGACTTATTAATTAAAATTTGTAACTCACATATGCATATTGTATATGTGTAG
AAATGTAATCACACTTTGTCTTGGAATTACATTAACTGTTTGAAATCACTGTAAAAAA

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FIGURE 1602

MAPVYEGMASHVQVFSPHTLQSSAFCSVKKLKIEPSSNWDMTGYGSHSKVYSQSKNIPLSQPATTTVSTSLPVPN
PSLPYEQTIVFPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLDITYQKCGLKRKSEEIENTSSVQIIEEH
PPMIQNNASGATVATATTSTATSKNSGNSSEGDYQLVQHEVLCSMTNTYEVLEFLGRGTFGQVVKCWKRGTNEIV
AIKILKNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKNHCTLVFEMLEQNLDFLKQNKFSPLPLKY
IRPVLQQVATALMKLKSGLIHLADLKPENIMLVDPSPRQPYRVKVIDFGSASHVSKAVCSTYLQSRYYRAPEIILG
LPFCEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGTKTTRFFNRDTSPPYPLWRLKT
PDDHEAETGIKSKEARKYIFNCLDDMAQVNMTTDLEGSDMLVEKADRREFIDLLKKMLTIDADKRITPIETLNHP
FVTMTHLLDFPHSTHVKSCFQNMIEICKRRVNMVDTVNQSKTPFIHVAPSTSTNLMTFNNQLTTVHNQPSAASM
AAVAQRSMPLQGTGAQICARPDFQQAALIVCPPGFQGLQASPSKHAGYSVRMENAVPIVTQAPGAQPLQIQPGLL
AQQAWPSGTQQILLPPAWQQLTGVATHTSVQHATVIPETMAGTQQADWRNTHAGSHYNPIMQQPALLTGHVTL
PAAQPLNVGVAVHVMRQQPTSTTSSRKSKQHQS SVRNVSTCEVSSSQAISSPQRSKRKVENTPPRCAMVHSSPACS
TSVTCGWGDVASSTTRERQRQTIVIPDTPSPTVSVITISSDTDEEEEQKHAPTSTVSKQRKNVISCVTVHDS PYS
DSSNTSPYSVQQRAGHNNANAFDTKGSLENHCTGNPRTIIVPPLKTQASEVLVECDSLVPVNTSHHSSSYKSKS
SSNVTSTSGHSSGSSSGAITYRQQRPGPHFQQQQLNLSQAQQHITDRTGSHRRQQAYITPTMAQAPYSFPHNS
PSHGTVHPLAAAAAAHLPTQPHLYTYTAPAA LGSTGTVAHLVASQGSARHTVQHTAYPASIVHQVPVSMGPRV
LPSPTIHP SQYPAQFAHQTYISASFASTVYTGYP LSPAKVNQYPYI

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FIGURE 1603A

GTATATGTTTCGTGAGTAATTTTAAAAAATAAAACAGGTTAATAAGAAGATCCATTCCCTTTGCATGTGATTGTT
ATAACAITCTTTCCAGGGAGTTCAATTTTCAGCAACCTCAGAAATCCATACTTGATATTAGGAACTGTAAATGT
AACACCTGAAATTATTATGTTCACTATTCTACATGAACCTTATGGAAATTCATGATTTATGTCTTTGTTTTCTT
TTTCCAAGTATATGCAGGACTCCCCAACCTTGATTTTATAATGGTGACTGCATTTTGTAGGTGGAATCATTCTA
CCGAAATCATTTTGAAACACAAGAATATTGATCAGTACTGTTTCACTCTGATTTAGTAAATCAGAAAGCCTCCCC
CTACCCCCAGCCCCACTTTCACATAACCTTCTGGGAGGTGCCTCAGTATAGACTTGGTATCTGTGAAGGACTGAG
TTCATGAATATGCACAGAAGCACTTAAACCATGCCTCTTATTTCTATAATATCTGAAAATGGCTTCATAAAAGTT
AAGTCAGGAGAACACTGTTTACATGACACTTCTAACTCATTTTAATGTTTATTTTAAATTTCAAAAACCTTGTT
GCCTATTTGGTTTTTCAGTACTGCATAACACTGACTTCTTAAATTAGTCATAGTTGCAATAATTTACTTAAATTT
GGTAATGTCACATTTGGGTTGGGGTTTCAGTGGGAATAGTAACTTGCCGCTAGTGAGAAATGGCATTGAATACTA
AAGACTCAATATGAACAGGCTTTATAGACCCTTAGAGAACTGTTGCCTTAATGTTTGGTGCAATTTCTAGTAGT
GCATAAGTGAATTTAGTCTTATGATAAGTAACTTTGAGCTGTTTTAGCTTAGTAAGAATTGTGGAACCACATG
TTTATTGTGCCCATCATTTTACACAAAGAAAAGAGGATTATATTATTTCTTCTAAGGAAGTAGGAGTTTCTTCC
TAAAGTGCTTACATATTGTAGTACTATTACTTAAAAGTTATTATGAAGTTGGGAGCCTTCTAGTTGCCTGTG
TTGATGTATTTTGAAAACAAAATTGCAATAAAGGATGAGCTTCCATCGGTGTGTATGGTATACCAGATACAGATG
GTTGCAAGGAAACCTTTTCCCCACTAGAATAGTCTATTAGTAACTGCTAAGTCCTAGCTTGCATTTTGAANA
GCCTTTCTGCATGTTAGCACCCAGACTTTCCTTGTGCATATTCCCTTATAGCTACAACCTTAACTGTAGCTTATCA
GAGAACCTCTGTAGTCTTACACTGAAGTGTGTTCCTTGGCTGTTCATATGGGGCTGGGTTTGGTTGAACCTTCCA
TTCTGTATAAATAGTATAGAACACAGTTACTACAGATTGATTACAAAACCTGCATGTGCTGGTGCTTGAGGCAGCCAA
AATGGAATGCTGTGGAAAGCATATCTATATCTTAAAAACACTCAGACAGGAGTTAAGGACAGCTTAAATAATTT
TTTTGTTTACCACTTAATCTTATCAACTTTGATTTTAGTTAGGGCTTAGCTCATGGTTGAAGAAAAGTGAAAA
TAACAAGTGCCCATTTAGGTTTGAAGAATCCAGAATGTTTTACCTTTGACTTTATGAGTTATAGAAGCTTGGCTT
TGCTCTAGGTTTCATGTTCCCAAATGAGCCATGTGTCAGTATATTCACTTAATTCCTACTAATTTCACTTTCCCTG
TAAAGGAACAACCTTACATATTGATGCTTAAATCCAGAAAGTGTAAGGTTTTCTTAAACTGTTAAATATAGT
GTCTGATATAAAGGATGTAAGTTACTCAGCTTCTGCTCCCTAAGCCAAACAGTGTTTGTCTTCAGTGTGAATTT
TAACTGTAAAAACTACTTGTATGTCAAGAGATTATAGATCATATTATTAATAAATGGACCTGGGTCTAATATT
TTTTTTTTCTTCAAAGGGAGTGTAAGCTGTTTATTCTTTTTATTGTCATATGAGTTTTCTTTTAGTTTTAGTTTT
TCATGTTTCATATTTCCACTGATTTGAAAACACAAAATTTATTTTTATAATTTTGTGCTTGTAGCATAATCAAGT
GCAAAATCAAGTGCAACCTACTTGTGACTAAATCTCTTTGGATTATAGCTGAGGATATTGTTAGCTAGGTTTTG
TCAATCCCTAATCATTTTTTAAAAATCAATGCTGTATTCCCAGGAGGCTTTGAGACTCCTATGAACCTGAAGCACT
CCCTTTTGAACCTTGAAGATCCTCAAAGAGTGAGCACTCTTGTGCTCTTCTAATCATAATTAATTCCTTAACAA
ATCAGAGTAAGGACCACTGACATATAGAACACTCAAGCCAAAGAACCATCACAGAATTTAGTAACTTTAGTTCTG
TGAACATGAAAAGATTTCTTTTTTGGTTTTCCAAAGGAGATTATTTATTTTTCCACAAGGAAAAACATCTTGAGA
GACTCTGAATTCAAATCTGAGTGAGAAAGAAAAGGAAAAAATCTGTTTCAIGGTGGATTCTAAGCAACATAT
ATACATGTTTTTAAGACAACCTTTTGTGGCAGTGTTTTTCTGAACACCATATGCACCCTAGGAAACGTTTTTC
CTTTAATCTTGTTACATATCAGAAAAGGACATGAAATGCTCATACTGGCATAACAAGTTTCTATAAGTAGTTATT
TTTTGAGCTACTTATACTATATCCCCAAAAGCTCACAGTGCCTTGTGGGATTTTTTTTTTCCATGAAGTAGCCA
TTATTTTAAATGAGTGGGAGAGGGTAAGTCTTTAGACAGAGGTCATTACAGCAGTTCAAGACTATTCCTCTTCAAG
AACATGTCAGGAATTAAGCAGTTATATGTGGAAACACTGGTAATCTTTCCACAGTGTTGTTTTGGATAATCTGT
TCTAGTATATTTAACTAATTGTATGGTGGACCTGTACTCTGATACACATCGAATCAGTCAATGGGATTTGTATGT
GCTTTTCTTCTACATTTTCATTCTACTGCCCCAACCTAGTAGCCCTAAGTTGTGGCTTGGTGGGTTTGGCAC
TGAGCCTCAAGACACTCACTACATTCTTCTGGATGTTTGTCTCACAGGCTCCCTGAGGAGCAGAACCTGTGGAGC
TGGGGAGTGCGGGTGGTTTTCTATTCCTAATATTGTGTGTCAGTCCTTTTTCTGTGTGATGGTGCCTTCAGAATAAC
GAATATTTCTGTTCTGGACAATGATTAAATCTTATGAGAAATATATGTAGGTTATATTAATCTTGTGCCATTTTT
GCTAAGCCTGTGAAATACTTTGGCTCTGATACAACCTTAACTTGAATAATATCTTATCCTGAGTCTTCTTCAAGG
CAGTACATATTCCTGCCAGGACTGTAGTAATCCTTTGGGAACATACATGTGAGTAAGCACTTGTATGTAAGCCATT
ATACTGCTGTAACATAATGCATACAAACAATCTTCTCTTTACATTTATAGTCTAAAAGGGGATATGCAGTGGGAA
GGAAAATTCCTGAGAGATTCCAGCATAGCTTTGTCAATTCCGACTGAGCCATACTGTTTTCCACAAGGGCTCAAC

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FIGURE 1603B

ACATAGTCAGTATTCCGTGCTTTCAGTGTGTGTTTCAGATTCTCCTCTTACTGGTTTTCTTAGACTGTATTGTTCT
ATAAGCAAATGCCCATGTGTGATTTTTAAGATGTGCTGGGGAAAAATAAATCAATACCACAACGGAAAAATCACA
CATGGGCATTTGCTTATAGAACAATACAGTCTAAGAAAACAGTAAGAGGAGAATCTGAACACACACTGAAAGCA
CGGAATACTGACTATGTGTTGAGCCCTTGTGGAAAACAGTATGGGCTACTAGGTTGGGGCAGTAGGAATGAAAAT
GTAGGAAGGAAAAGCACATACAAATCCCATTGACTGATTGATGTGTATCAGAGTACAGGTCCACCATACAATTA
GTTAAATATACTAGAACAGATTATCCAAAACAACACTGTGGAAAGAATTACCAGTGTTTCCACATATAACTGCTT
AATTCCTGACATGTTCTTGAAGAGGAATAGTCTTGAAGTGTGAATGACCTCTGTCTAAAGACTTACCCTCTCCC
ACTCATTTAAAATAATGGCTAGTTCATGG

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FIGURE 1604

MASS

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FIGURE 1605A

AGCGGCCGCCAACGCCGCCGGACTGGAGCCCTGACATTGCTGCGCTCGGGGGCTCCAGGCAGCCCGTATCGGG
GCCTTTATTTCTCGTCGGCGCGCCCTGCACCGCGCCTCGCAAAGCCAAACACCAGAGCACCCCTAGAAGGTTTAA
CTAAAAGAAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAGGCCATGGACCCTGTCTCAGTGTACATACCCAT
CTAATTACATGGAATCCATGAAGCCTAACAAAGTATGGGGTCTACTCCACACCATTGCCTGAGAAGTTCTTTC
AGACCCCAAGAGTCTGTGCGCACGGAATACAGATGGAGCCAGTGGACCTCACGGTGAACAAGCGGAGTTACCCCC
CTTCGGGTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCTCACACCGGAGAGCCCTCGCCTGGGTGAGCATGC
CTTCTTCCAGCCACCATAAAAAATACTACCCCCCTTCTCCAGGCGTGCAGCCCTTCGGCGTGCCTGTGCCA
TGCCACCAGTGATGGCAGTGCCTCTCGCGGCATGGAATACGGAGCCCGGGGATCCTGCCCGTCATCCAGCCGG
TGGTGGTGCAGCCCGTCCCTTTATGTACACAAGTCACCTCCAGCAGCCTCTCATGGTCTCCTTATCGGAGGAGA
TGGAAAATTCAGTAGTAGCATGCAAGTACCTGTAATTGAATCATATGAGAAGCCTATATCACAGAAAAAATTA
AAATAGAACCTGGGATCGAACACAGAGGACAGATTATTATCTGAAGAAATGTCACCCCTTAATGAACCTAG
TGTCCCCCGCAAGCAATTGTTGCAAGAGAATCACCTTCGGTTCATCGTGCAGCCTGGGAAGAGACCTTTACCTG
TGGAATCCCCGATACTCAAAGGAAGCGGAGGATACACAGATGTGATTATGATGGATGCAACAAAGTGTACACTA
AAAGCTCCCACTTGAAAGCACACAGAAGAACACACACAGGAGAAAAACCCTACAAATGTACATGGGAAGGGTGCA
CATGGAAGTTTGCTCGGTCTGATGAACIAACAAGACATTTCCGAAAACATACTGGAATCAAACTTTCCAGTGCC
CGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTCCATAGGAAACGCCACATGCTAGTCTGATGTC
CTCTGTCTCTGCCTCAGCGTGACTCCCCACTCACCTGGCTCTCTCTCTGCTCTGCCTCCCATCTATCTAACACAT
TTTTTACATGTACATTTTAAATTTGATTGAGCTGGTCTGAATCTCTGAATTTATATCATCCAAAACCTTCCATATGG
TCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGTGAGACCTAAAGAATGTGAACACTTTTTTTTT
TTTTTCTGGGGATGCTAAGCAAACCTTCTTACAGATACGTTTAAATGTAATAAGAACAAGGAACATGTAAACTA
ACATAACCAATTGTCAAGTTCTCCATGTATTCTCAAAGAAATGTGAGAGTAAATGTATTAGAAATACAGTATCCA
GACTGTAGTCTTGGCAGAGACATTCTTACCTCTGCCCTGTGATAATATTTATGCTTGACAGTGAAAACAAGT
GTGGCCCTTGCACCGGTTAGCTAGAAGTACAGCCAGATTTCAAGCTAGTGCAGTCACCTCTTCCGTCATTCTTC
ACAAATCTGTCAACCTGGATCTTAGACTTCATCTGAATCGAGTTCTTTGCCCTCCTTTGTGCCTGCAGCTCATA
TGGAGGTCTTTGCCACCAATGGGAGATGAGCCCAAACCTTCGATCTAGGTGGGTGATGTGTAGCAGTTCAAGGGA
AGGGTGTCTGTTTTTATAGCATGGAGTGGAGGAGAGGGCCATTTAGCAGGGGGAGCAGAAGAGGCAATTCCCTC
CTGGGCTAGGGGTTGTCAATGAGGTTTCAACATTTTGTAGCTGTGTGCAGCATTCCCAGAGCTTCAGTCTCTGT
GCATACTCAGCTTTGTAGAACCATGCTGCAAGCCATATACCGATGGGGTTATCCATGCAACTATCTCCATTCTCT
ACAATGTCCTTAATATGAGATCATCAACATTGATAGTAGGGACTCCATGGAATATTTGCCAGTAATGGTAAGA
AATCTTTGGGTAAGAGTATGGATGGTTCTCTTTTACCCAATCTGCTTATAGCTTTTTTTGTAAACAGGGAAAT
GTTGAGTGGTACTTGTATTCCCTTATCAAATTAATCACATAGCTTTTATACAGAACTCTTCTGTGTGAGCTGT
TAAGGTGCCAAATTGGCTGTCAATTTGTATTGATGACACATACCATAAAGCATCTGCTAATGCTTTAATGGATTGA
TTCAATTAAGACCTGAGTGACACTATTTGTAAATATACTAGTTGTGAAGCACACATACCTTTATTTTGGGAATT
TATGAGAAAAATATAGAAAACACAGATCAGGGATTATATATGTAGCTCAAAAATTTCCCAAAAGTTTACTGTAG
AGTTGGCAATTTCTATCACTATTTTCAGTGTGAGAACAACTGAAAATAATGGCTCGTGTATTGTTGAAGATAA
ATAGCACCATTATTGGGGGAAGTTATTCAAAGCAGGCTTTTGAAGCACCATAGTCTAAATGCCAAATAAAATAAT
TCATACATAGAAATGTCATTGGTCTGAATTTGAAGAAAGTGAGCAACAGTAGTTAAATGTGGGTGCATATAACC
AAATTTCCCTTCATCAAGAATGGAGGAGAAGAGAGAAGAAATGAAATCCTGAAGATTATCCAGCCGCAACTCAG
GATCCAACACAACCTTTAACTGGGAGGAATACATTGTTTGATCATTTTTTAAACATCTGTGAATGAGTGATTCCGG
AGGCCTGTGAATTGTGTGGGAGCTTGCTTTGATGGCACTGTGTTAATAAAAGTTGTAGGGACTGTGCACCTAAG
AGGCTAAGAGGTCCCACTCATCCGCCCTGTGAACCAGCTGTAAAGAAATGTAGTTAAGAAATGCAAGAAATGTG
TTATCTTGGCACTTGGGTTTGATTTTCTTTTTTAAAGCACTGCAAACTTCTTTAGGATACTAAACATCCTA
ATTGGGCTGTTTTTTGTTTTGTTTTGTTTTTCAAGCTAAAGGCAAAGATAATTTTTTTTCAAGCTGAAGTTTTTC
TTTTTTGCAACTATGACATGAATTGAGTGATAAAATGGCTCTTTGAAAAGTAGATATTGCTGTATTGTAAATGC
TTAGTCATATTGATGCAAGTGTTCATTCTTGAGATGGTTCTTTTCAACACACAAGAAATCAAGATGGAACGC
AAGGAAAATCTTTTTGTTTTGACCGAGGTAACCAGTTTATGTGTGTTCCAATCCATAGAGAAGTGGGGGAAAGGG
CGAGAAAGGATCAGATTGATCTGGGATCAGCTTTGAGCTGAGTTGAGTGAATAGCCTCATGGGCATCTCATGGA
ATTGATGCATTTGCTGTGGCATATTTAAATTTGTTCAAAGATTGGAAGCAAGACCTTGCAAGACTCTTAACA

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FIGURE 1605B

TTACTGTTTCAGCTTGCTTAGATTGTGTTAACAGTTCATTTAACAAAGATCCGTTTTAACTCTGAACAAAAGCAAC
CCAGAGCGGCCATTCTCTATTCCCATGCTGGTCAATACGCTTTCATTACCAATTGGCCCTTACCAAACCTTTTCTT
ATATATATATTTGTATTTTACTATGATAGTTGAGAAATTTAGCCTCTTAGTTCATTTTCTAGCTGTTATTGTGGAAG
ACCTCAAATACAAGATTAGATGCCCTTGAACATGTTTTAATGATGTGTGTCATGTTACTATCAATGGTGATTTC
ATCGCAATATTTTAAATTGATGAGAATGATTTGTAAACATGAAGTTACTATTACGTAAATTCTGTTTGTTATAGA
GTTTCTTCAGTTGTTACCCAAGTGTATCCTAGAGAAGTCAGAAGAATCAGAATCCATCGTATTTTAGAGTTATG
TGAATCTACATCATAAATGGGCATTAACATTCTAAATTGCTTGGTTTGGAGAATGTGTTAGCAGCATAGCTATAT
TCAACTAGGGAGATGCTAAATACACAGAAGTTTCAAGAGCCTTGGAACAGAATTACAGGGGAACCTATATATGTAT
ATGTATATTTTATTAAACACCCATCTGCACTATCAGTATTGCCTAATGTGGAATTGAAAGACTATTTTGCTGA
TACTGTATATATGCGCATCATTCCTGATTAGATTGTGTAAAGACAATCTGAAAGATCTAAGGTTTTAAATAAT
TTGGTTTGAAATATACAGTTGTCTTGAAGGAATTGCTGTATACATGAAGTTGCTCCGAGCTGTCTTTATTCTC
TTCTTGGTCAAGGTTAACAATTGCTAAATGATCGCAAATTCACCTAAACAATACATTACAAAGCCATCTTTACA
TGCATTAAACGAGGGCTACAACAATATTGTTTTACAAATACTAGCACTTTTTTTCTGTTATGTACTTAGTGTTA
GAGGGTCAAATAATCTTTCTGCTTAGCATCTCTTAAACCATACCTGCAAATATAGCAGGATTATTACATTTACA
GTACTTTAATACTTGTATAAACTATGCAGAAATTTTAAATAAGTGTAATATATTTTATAAGCTAATAAGACTGA
ATGGGTAAAGGTTTTTAGCATGCGTTAGTATACTTGCAGATACTGAAACATTTTGGTAACTCTTCTTACTAAAGA
TGGAATGTTTAAATGTACCTTCTCTGTTTCTACTCTGTAGTCCAATGGGAATTCAGTAATGACATTTTGTCAATG
CAAACGTGAACATAAATTTGTACTGTACAGTCCTCATATACTATATACAGTATGCAATATATATTATATACTTG
TTAATAAAACCATCAGAATATTAAAAAAATCTATGTGCGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC
GATATCAGC

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FIGURE 1606

MLMFDVPVPVKQEAMDPVSVSYPSNYMESMKPNKYGVIIYSTPLPEKFFQTPEGLSHGIQMEPVDLTVNKRSSPPSA
GNSPSSLKFPSSHRRASPGLSMFSSSPPIKKYSPPSPGVQPFQVPLSMPPVMAAALSRHGIRSPGILPVIQPVVV
QPVPFMYTSHLQQPLMVSLSEEMENSSSSMQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEEMSPPLMNSVSP
PQALLQENHPSVIVQPGKRPLPVESPDQQRRIHRCDYDGCNKVYTKSSHLKAHRRHTHTGEKPYKCTWEGCTWK
FARSDDELTRHFRKHTGIKPFQCPDCDRSFSRSDHLALHRKRHMLV

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FIGURE 1607

TTTCGCAGGCCGATCCCCACTCCAACCGTTCCCTCAGCAACCCCAGGGGTGTCAGACGGGGCACCCTCCCCACTGT
CTTCTCCAGCCAGCCTTAAAAACCCAGAGACGCCAGCCTGGGAACGATCTCAGTATGGAATCTGAAGTCGCCTT
GTCAGCACAGACACCTCTGGGGTCCCCAGAAGACCTGTGGCAAAGTTCTCTAAACCGAACCTGGAGAGGGGAAGG
TTTTCAAGCAGGAACACATAAATTCACCTAAACTCAGCCTACACCCCTCTGTGATAAAAAGATTCTGTTTCT
TCTGTTGGAGACTGAATTTCTCTTCAAGACTACAGTACTGTATCTGTCAATCTGTGGAAA

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FIGURE 1608

CTCTTACAACATTGGCTGCCGGCGTGACTTTGACCGCTTCCCGGTGCGTTACCGGCAGCTGAACCCACCCGGCGC
CACGGGACTTTGACGCGTGCTCTGCGCTTGCCATGAGACTCCTGGGAGCTGCAGCCGTCGCGGCTCTGGGGCGCG
GAAGGGCCCCCGCTCCCTAGGCTGGCAGAGGAAGCAGGTTAATTGGAAGGCCTGCCGATGGTCTTCATCAGGGG
TGATTCTTAATGAAAAATACGAAATATTGGAATCTCAGCTCACATTGATTCTGGGAAAACATACATTAACAGAAC
GAGTCCTTTACTACACTGGCAGAATTGCAAAGATGCATGAGGTGAAAGGTAAAGATGGAGTTGGTGCTGTCTATGG
ATTCCATGGAAGTAGAGAGACAAAGAGGAATCACTATTAGTCAGCAGCCACTTACACCATGTGGAAAGATGTCA
ATATTAACATTATAGATACTCCTGGGCATGTGGACTTCACAAATAGAAGTGGAAAGGGCCCTGAGAGTGTGGATG
GTGCACTCCTTGTTCTGTGTCTGTGGAGGGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCT
ACAACGTTCCGTTTCTAACTTTTATTAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGCCCTGCAGCAAA
TGAGGTCTAAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTAATTTTAAAGGTATTG
TAGATCTTATTGAGGAACGAGCCATCTATTTGATGGAGACTTTGGTCAGATTGTTTCGATATGGTGAGATTCCAG
CTGAATTAAGGGCGGCGGCCACTGACCACCGGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTG
GTGAGATGTTTCTGGAAGAAAAATCCCCTCGATTTCTGATTAAAGCTAGCAATTCGAAGAGCTACTCTGAAAA
GATCATTACTCCTGTATTTTGGGAAGCGCCTGAAGAACAAGGAGTTCAGCCTCTTTTAGATGCTGTTTTAG
AATACCTCCCAATCCATCTGAAGTCCAGAACTATGCTATTCTCAATAAAGAGGATGACTCAAAAGAGAAAAACCA
AAATCCTAATGAAGTCCAGTAGAGACAATCCCACCCATTTGTAGGCCTGGCTTTTAACTGGAGGTAGGTTCGAT
TTGGACAATTAAGTATGTTTCGCAGTTATCAGGGAGAGCTAAAGAAGGGTGACACCATCTATAACACAAGGACAA
GAAAGAAAGTACGGTTGCAACGGCTGGCTCGCATGCATGCCGACATGATGGAGGATGTTGAGGAAGTATATGCCG
GAGACATCTGTGCATTGTTTGGCATTGACTGTGCTAGTGGAGACACATTACAGACAAAGCCAACAGCGGCCCTTT
CTATGGAGTCAATTCATGTTCTGATCCTGTCAATTCAATAGCAATGAAGCCTTCTAACAAGAAGATCTGAAAA
AATTTTCAAAGGTATTGGCAGGTTTACAAGAGAAGATCCCACATTAAAGTATACCTTTGACACTGAGAACAAG
AGACAGTTATATCTGGAATGGGAGAATTACACCTGAAATCTATGCTCAGAGGCTGGAAAGAGAGTATGGCTGTC
CTTGATACAGGAAAGCCAAAAGTTGCCTTTTCGAGAGACCATTACTGCCCTGTCCCGTTTGACTTTACACATA
AAAAACAATCAGGTGGTGCAGGCCAGTATGGAAAAGTAATAGGTGTCTGGAGCCTCTGGACCCAGAGGACTACA
CTAAATTGGAATTTTCAGATGAAACATTTCGGATCAATATTCCAAAGCAGTTTGTGCCTGCTGTAGAAAAGGGGT
TTTTAGATGCCTGCGAGAAGGGCCCTCTTTCTGGTCACAAGCTCTCTGGGCTCCGGTTTGTCTGCAAGATGGAG
CACACCACATGGTTGATTCTAATGAAATCTCTTTTCATCCGAGCAGGAGAAGGTGCTCTTAAACAAGCCTTGCGAA
ATGCAACATTATGATTCTTGAACCTATTATGGCTGTGGAAGTTGTAGCTCCAAATGAATTTTCAGGGACAAGTAA
TTGCAGGAATTAACGACGCCATGGGGTAATCACTGGGCAAGATGGAGTTGAGGACTATTTTACACTGTATGCAG
ATGTCCCTCTAAATGATATGTTTGGTTATTCCACTGAACTTAGGTCAATGCACAGAGGGAAAGGGAGAATACACAA
TGGAGTATAGCAGGTATCAGCCATGTTTACCATCCACACAAGAAGACGTCATTAATAAGTATTGGAAGCTACAG
GTCAACTTCCTGTATAAAAAAGGAAAAGCCAAGAAGTAACTTTGCTTACTGTGAGTTGACTGACTCTAATTGAATC
TGCGTGGTTTTGATACTTTGATGGATTCCAGTGGAAATAAATTCAGGCTGCTGAAACAAGAAATCTGAGCCCAGG
AAGCGGGCTCTTCTTTCTTCAAAGAAGCCCTTCTTGTTTCAATTCAGGAGCTTCTGTTATATTCAAAGGTAATT
CTATGTCTATCTCAACTCTATTGATTGGTTTTATAGTTTATTGAAAATCCTCAAATAAAATATAATTATTACTGA
AATATGTTAATATTTAAGGGGAAAAGAGACTAATTTTCAGTTATACTTTTAAAGCTTAGAATGTATGTTTCAATTC
AAATTTTGTATCATAAGAGTTTTCAACATAGAGAAAAGCTGAAAAATGCAAAGAATAACCACATACTTTCCATC
TACCTTCCTTTGTTAACGGTTGTTTATCATATAATAATTTGTTTTGTATATTGCTTTTCACTGTCTATTATCT
GTTTAAAGTCTCATAACTCTATTTTTAGTTTGTGAAAGCTTGAAGTGAATCGCATATATCATGACACTTCTTGG
AGTGTCAATTAATGGGCAGGCTTTTCTGTTGAAGAGTGGATTCCGTATGTTCTTCATAGAGAGTGTTTTCAGATT
CTTCATTGGGATATTAATATTAGCCAAATTTCTCTGTTTTATATATGCTGTTTATTTTCAGTTTGTGGTTT
CTGCAAAATTTGTAAGTGCCTCTGTTTTAGGAGTATAAGTATTACTTCTTGTGGTCTATTGTGAAGTAAAAAGTA
GACCTTGCATATACTATTCTGTTTGTGTTTCACTTAAATGTTTTGTACAGCTAAATCAAATGTAATTTATAGA
GTTAGTTTCACTCAACCTAATGAATGCTAGTTAAATTTGAATTCCTTGGAAATTTATCGTATATTGTATTCAGTGAG
ATTATGAAGGACAAATGTTAATCTTTTGTTCAGAAAAAGTTGGGCTTTCCCAAGCAGTTCTATTACCCGGTT
CAGAATTGCTTCATCCAAAAATCATCTGATGGTATAGATGGATCCTAGTCCTTTTCACTTACCTGATGGTAGAAAT
AAAATAATTGATT

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FIGURE 1609

MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDSGKTTLTERVLYYTGRIAK
MHEVKGKDGVGAVMDSMELERQGITIQSAATYTMWKDVNINIIDTPGHVDFTIEVERALRVLDGAVLVLCVGG
VQCQTMTVNRQMKRYNVPFLTFINKLDRMGSNPARALQQMRSKLNHNAAFQIPMGLEGNFKGIVDLIEERAIYF
DGDFGQIVRYGEIPAE LRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAI RRATLKRSFTPVFLGSA
LKNKGVQPLLDVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNSHPFVGLAFKLEVGRFGQLTYVRSYQ
GELKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICALFGIDCASGDTFTDKANSGLSMESIHVDPV
ISIAMKPSNKNLEKFSKGIGRFTREDPTFKVYFDTENKETVISGMGELHLEIYAQRLEREYGCPCITGKPKVAF
RETITAPVPFDFTHKKQSGGAGQYGKVIQVLEPLDPEDYTKLEFSDETFGSNIPKQFVPAVEKGFLDACEKGPLS
GHKLSGLRFVLQDGAHMHVDSNEISFIRAGEGALKQALANATLCILEPIMAVEVVAPNEFQGGQVIAGINRRHGVI
TGQDGVEDYFTLYADVPLNDMFGYSTE LRSCTEGKGEYTMEYSRYQPCLPSTQEDVINKYLEATGQLP VKKGKAK
N

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FIGURE 1610

GGCACGAGGCCTTCGGCCACCCCGCTGACCATGGCAGTGTTTCATGACGAGGTGGAAATCGAGGACTTCCAATA
TGACGAGGACTCGGAGACGTATTTCTATCCCTGCCCATGTGGAGATAACTTCTCCATCACCAAGGAAGATTGGA
GAATGGGGAAGACGTGGCAACGTGTCCTAGCTGCTCTCTCATTATAAAAGTGATTATGACAAAGATCAGTTTGT
GTGTGGAGAAACAGTCCCAGCCCCCTTCAGCCAACAAAGAATTAGTTAAATGCTTGAAGAAGCCTTCAGGAATCCAA
ATCCTGAACATTTGGAATGAGCCCAGATAGAAATATCGAATGCAAAGCTACTGGCTTCACAGAGACAACCATTTA
TGATTTGCTGTTCTGTAAGAGTGTGGATTCTTTCTATCAACIGCTGATATCACTTCAGGAAGCAAGTCCATAAC
ATGACATATCTGGATTTTGTGCTTAGAACCTTAAATTGGAAGCATTCTTAATTATGCATCTAAATTTAAAAGAAG
ATAATTTCAAAACAGTAAAAAAAAAAAAAAAAA

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FIGURE 1611

MAVFHDEVEIEDFQYDEDSETYFYPCPGDNFSITKEDLENGEDVATCFSCSLIIKVIYDKDQFVCGETVPAPSA
NKELVKC

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FIGURE 1612

GGCACGAGGCCAGATACTACTGGCCATCAAGGGACAGAAGAAAAAGGCGCTCATTGTGGGGCACTGCATGCCTGG
CCCCGAATGACCCCCAGATTCGACTCCAACAACGTGGTCCTCATTGAGGACAACGGGAACCCTGTGGGGACACG
AATTAAGACACCCATCCCCACCAGCCTGCGCAAGCGGGAAGGCGAGTATCCAAGGTGCTGGCCATTGCTCAGAA
CTTTGTGTGAGTTGAGCCCAGGCCTCTGGTTGCAGGACTCGTGAATGGAGCAGTTCTGAGAACCACCCTTTGCT
AAGGGAGCTTGGGAGCCACATGGCTGCTCCCTTCACACTGGGTAAACAGTGTAGTATCCTGTGAGAGAATAAATGT
ATTCATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1613A

GCACCGCCCCGGAACACGCTAGTGGAGCGGAAGATTGCGGCGGGCGGTGAGGCGGCCGCTTGACGCCGGGACTTCA
GTTGGGCTGAGGCGGAGGAGCCGCCCTTCTGACCTCGCTCTGGCTCCGGTGCGCGGGCTGAGCGCGTGCGAGG
CCCCGCGCTCGGGCAGGGGCGGGCGGGCCACTGCGCGCGGCCCTGAGGAGCGCCCCAGCGGCGGCGGACTGC
GGCTGAGGAGAGAGCCGGCTCCGGGCTCCGCGTCTCTGCTCCCCCGGCCCCCGCTCCTCGGGGGGGCGGC
GGGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCCGTAAGGGCTCCTCAAGAAGGGCGC
GTGCTACGGGGACGACGCGTGCTTCGTGGCCCCGACCGTTCCGCGGACGTGCTCGGGGTTGACAGTGGTGTAGG
AGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTAGTAAA
AGAAGSACGGTTCGTACCTAGTAATCCCATTTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGCAAAATAAAGT
CCCTTTGCTCGGTAGCAGCACCAGCTGCATTGTGGTGCTGGACAGAACAGCCACCGCTTACACACAGCAAACCT
GGGCGATTTCAGGCTTCCTGGTTGTCAGGGGTGGTGAAGTCGTGCACCGATCAGATGAGCAGCAGCATTACTTCAA
CACTCCATTCCAGCTCTCAATCGCTCCCCCTGAAGCCGAGGGAGTCGTCTTGAGCGACAGTCCGGATGCTGCTGA
TAGCAGCTCTTCGATGTCCAGCTAGGAGACATTATCTGACGGCAACAGATGGACTCTTTGACAACATGCCTGA
TTATATGATTCTTCAGGAGCTAAAAAGTTAAAGAATTCAAATTATGAGAGTATACAACAGACTGCCAGAAGCAT
TGCTGAGCAAGCTCATGAGCTGGCCTATGACCCAAATTATATGTACCTTTTGACAGTTTGATGTGACAATGG
ATTGAATGTGAGAGGTGGAAGCCAGATGACATCACCCTCCTTCTTCAATAGTGGCTGAGTATACAGACTAGCT
GAGGTGTCAAGTCTGCTTTCTTTTCATCATCCAAATTTCCCTGCCATGTGTGCTGATCCTGCTGGCAGGAC
CACATTTCTTTGCCACTGATCTCAATGGCCAGTGATGTAAGTCTTTTGCTGTCTTCTTGAGACTCGTTGAGATC
TTTGTTGAGAACCCTACTATCATTCACTAGCTCATATCTGCCGCGCAATTGAAGAGATCCAATATTTGAAGA
TTGGCCTTCATTTCTCGATGTCTTTCCATGATGGGGATGGAGGTGTTCACTGCCACCGTGGCTGTTACTTTTCA
AAGTAGTTGAAGTATTGAAAAAGAGTAATGTTGGTAAAGTGAATCAAAATCCTAGTATGCTAAAGGATGGTAC
AAGTCTAACACAAATTGTACGTAATGATACATCTACTAGAAACATACATTATTCATCAAAAGAAATGTTACATGT
GTACTCCACAGGCATAGTCTTTGTTATGATGATTGGTGTGGCTTTATGTCTTTGTTATAAACTCCTATTTTTAG
GGGCTTATGATTCTGCTCTAAAACATTGCTCTGGGTTATACAGTTTGATCCCAAAGCTTTTTTGTGTACAAATC
GGGAGAAAAATCCATTTTTAGTTCTATGGATGGAATATTTCTAGCTTTTAAAAAGATGTTTGTGTCTGTGGTT
AAAGTTTTGGCAGTTTTATTGATTAGTCCAAATCAGAGCTAAGGCTGATCTCCAGGAGGGGTAGGGGAGACACT
TTACCAGTATTTTTTTATGGAATAATACTCAAGGTGTAAGGCTCAAGGCTCAAGGCTAGAAATTTAATTGTTATGG
CTGAAATTCCTCCTAGTTGTCTGATAGAATGCCCTGAATGGGAACCTAGGTCCCAAGGCTGAAGGGTTGAGA
ACAGACAGCTGTAACCTTTGAATTTTTGTTGGCTTTCAGTGGTCAIGCTACCTACCCATACCTCGTACTCAGACCT
TTTATTAGTAGCCTTGCTTTCTATAGAGCATGCACCAAATCCAGTGAGTCCATGTGGAGAGAGCACTGTGTGCGC
AGCGGCAGCAGCACAGACGTCCATGAGGAAAACCTCCAGTGATGATCTGACATTACAATTACCCACATGGAAA
TTTAGGGGTTTCTGAATCAAGCTTAATGTTTACAGTTTCCAAATAGCCATTTTGAGTGTATAGTTTCTTTACAA
AACTACCCCGCATTTCAGTTTTACATTATCTGCAAGCTGAAACTTATTTTTAAGTTTTGTTGACAAAGTTGACTGC
TGTAAGATATATATTTTTGGGTCAGTTTTTTTCTTTCATTAACCTTGGTGGTAGAAAAAATATATACTTAGAAA
TCCTTAAATTAAGCCATGTTTTATATATAAGTCAGGTAACATTGGTGTATAGATGAGAATGCAATTAAACCTGA
TGAGAATCTACTTGAGAATATAGAAAGCTTTCTCTAAAGGAGATACTGACTCCCTGGTTTTATTGCATTAAATTT
TATGTTTGAGGTTACCTCAACTGTTTTTAAAAGATTTTTGTTTTGTGAATTTGTACTGTATATTTGAGTAACGTG
AGGCTTTTATTTAAATGTTTAAACATGTACCATGTACATGTCTACTATATTTCAATGCATCATGCTTGTAAC
AGGCATTTCAATTTATAATAAGAAATGAGTTATTCATTTGTAAGCCGTTTCAGTAATTTATCTACTATTCTAAATTTG
GCATAATGTTAGATAATCTATTTGAATCACCTTTAATTACATGTCAGAATGCCTTAACCTAACCTTGACAA
AACAGAATTTCTTGGTAGACGCGGTGGGGGCGGGGTGGGGGCTGGACGGAGTCTCTATTTAAGGAGAAATCAT
CATGCTATGATAAAACACAGAAGCATGAGTGGCAAGTGGCGGGGTATTTATTTGACAAACTATTTGCAGTCTC
TGTGATTTAAAAAGTAAAGAAAGTTGCATCCAGAAGGGTTTTGTTAGAATGAATACATTTATATTAGGACTGAC
AACTTCAGCTCTTTTGTGTTAGGTTTTCAATTATTTTTGGTAAGAGTATGTAGCCTTATGATCTGGATATATTTTG
CATTCAATTTCCACGCTACATTTAATTCCTGGTAAGAGCAGTGCTCGTCAAGTTTCTGGTTTTCTCTGCTCT
CATTTAACCCGTCAAACACAATCTTTGTAAGCTAGATTGGTGGTGTGTTTATACAACCTATTTACTCAGCTTACC
TTTTTGAGAAACGATTGTTAGAAATTGACGATGTGTTTGTTCAGTGATACTGAAAGTAGTGGGGCAAGAATTG
AGTTTCACAGTGGAATTGGCTTTGGATCTGGCCTATAGATTAGTGACATAAAATATTTCTCTATTTCCCTGT
TCTTTTTGTGTTATGCACTTAATTTTATGACTGCGGGGGGGTCAGCTGGAGTGCTGCTTAACAAGTATCTCTCC

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FIGURE 1613B

TACTCTCAGTGGTCAGAGGCTGTGTTGGACCCATAGTAGAATTTTCCAGGTCACAGACCCAAGCTTCCATGGGTT
GTTACTGTGCTGTACCACTTGGTGGGTCTGATTCTGAACCTGATGTGTGTGTTAATTATATTTAAGCAACACAC
ACGACACACACACGCCCTCATGTAATGGACTTTTATAACAAAAGAAAAAATTTGGATTTCTAATTTACAAATGGCA
AATTATTTATCCCTCTCTGGATGCACCAAAGACCAGTAAAGTTTATAGCTTTTCCATCTATATTTATAAAGCAAT
ACTGTATTATAAAAAATCAATATTTTTATCACATGCTTGAAATTTTATTTTGTGTTTTAAAAATGTGCACTCTAA
ACATATCAGAACCTTATTTCTTCCTATGAACTTAAGCTGCCTGCGCACAAAAAATTTACCAAATGGA
GATGCAGTAGAGTCCATAGGCTCTAAAACTAAAAGAAATGGGATGCAGGGGGAACAAGTTATTGTCTGAGTT
ACTGTACTTGCTTGACATGGTTGTTGGGTACTAAATCACAAAAGAATCCATTCCAGGTATGCATGTCTGGGGTT
GGGCTGTGCTAGATTAGAACTGGGTTTCAAGCTTTGCATGATGGGAGAGCGTCTCTCCTCTATCAGCTGCGT
GTGTTCTGGATAGGACAGTAGCCCGGAGATGGAACACCTTCAGTACCATTAGCCCACCATACCAAGTAACAAG
TTAGGCAGGAATCGTGGAATTTATTGAGTCAGCTTTGAGTGTGTTGAGAGAATGTAAACAAGATTGGCTCGAATT
GTAAACGTTTGACTTTGGATGAGTTCATGGTTCTTTAGGTACCTTAATACCAGCTATCTTTGGTAGAAGCTAC
AGCATTGAGTTTCTCTGGAACTGTATCACATTTTGCATTTTAAAAATTTTACAGTATCAAAAAACCAAATCT
GCTTATGAAACAAAACATGAAGCAGGACATATTTGGATTCTATTTATTTAAAAATTAATTTCTTTGCAAAATTGAA
CTTCTCAACTAAAACGTGTCCATGTCAGAATTTAACTGTTAGCAGGTAGTTTGTGGCAAAGATGGCTAAATAAT
GAAGCAAAATTAGAATCTGTGTGTATACTAATGAGCTGCTTTTTTCTGTTGAGACTATCATTATTTGCTTATTA
CCCAAGAGGCAATTACCTGAATTTGGATGTCTGAATTATAACTTATGCAGGAATAGTTCTGTAAATACATTTAAA
TAACTGTAAAGATATTTAATAAATATAGTATTTATACTAATCTGTGTGCTTCTTTGGTTTGAATAGTAACTAA
ATGAGACACCAGCCCTTGACATTGAGTTTGTGGTCACTATCAGGTCTCTCATTTCGAAGCCTCCTAGTCATTCTA
GCACGTATTATATGCTGCTACTTTAACTGGCTCCAGCTGCTTCACTACATCAGTTT

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FIGURE 1614

TGPEHASGAEDCGGGQAAACSRDFSWAEAEPPLLTSLWLRCARLSACEAPRVGQRRRPLRAALRSAPAAARLR
LRREPAPGLRVLLPRPPASSGGRRRLRTGDRPAAASGRTSRKGLLKKGACYGDDACFVARHRSADVLGVADGVG
GWRDYGVDPSQFSGTLMRTCERLVKEGRFVPSNPIGILTTSYCELLQNKVPLLGSSTACIVVLDRTSHRLHTANL
GDSGFLVVRGGEVVHRSDEQQHYFNTPFQLSIAPPEAEGVVLSDSPDAADSTSFDVQLGDIILTATDGLFDNMPD
YMIQELKKLKNSNYESIQTARSIAEQAHELAYDPNYMSPFAQFACDNGLNVRGGKPDDITVLLSIVA EYTD

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FIGURE 1615

GGGCTTATGAGGTCAATTGGAAATAAGAACACCATTTTACTGGGTCTAGGATTTCAAATATTACAGTTGGCATGG
TATGGCTTTGGTTCAGAACCTTGGATGATGTGGGCTGCTGGGGCAGTAGCAGCCATGTCTAGCATCACCTTTCCT
GCTGTCAGTGCACCTTGTTTCACGAACTGCTGATGCTGATCAACAGGGTGTCGTTCAAGGAATGATAACAGGAATT
CGAGGATTATGCAATGGTCTGGGACCGGCCCTCTATGGATTCAATTTCTACATATTCCATGTGGAACCTTAAAGAA
CTGCCAATAACAGGAACAGACTTGGGAACAAACACAAGCCCTCAGCACCACCTTTGAACAGAATTCATCATCCCT
GGCCCTCCCTTCCTATTTGGAGCCTGTTCACTACTGCTGGCTCTGCTTGTTCCTTGCTTATTCGGGAACATACC
AATTTAAGCTTAAGGTCCAGCAGTTGGAGAAAGCACTGTGGCAGTCACAGCCATCCTCATAATACACAAGCGCCA
GGAGAGGCCAAAGAACCCTTTACTCCAGGACACAAATGTGTGACGACTGAAATCAGGAAGATTTTTCTATCAGCAC
CCAGGTCTTAGTTTTACCTCTAGTTCTGGATGTACATTCCATTTCCATCCACAGTGTACTTTAAGATTGTCTTA
AGAAATGTATCTGCATGAACCTCCGTGGGAACATAAGGAAGTGGGAACCTAGAACCAGACAGTTTTCCAAAGATGT
TACAATTTCTTTTGAAAAACCCTTTGTTTATTAGCACCAATTTCTCGCCACTAAGCTATTTGTTTTATTATACAT
CCTTTAATTAATAAACTATATATGTAACCTCTTAGATATTAGCAATGTCTCTGCTACCATTTCCCTAAGGTGTTG
AGCTTTAAGCTCTATGCTGACTCAGTGAGACACAGTAGGTAGTATGGTTGTGGACCTATTTGTTTTAACATTGTAA
AATTTTGAGTCAGATTTTAATATTGTAAAATCTTGGGTCAAATAATTCAAAGCCTTAATGCAGATGCACTAAAC
AAAGAAATGGTAAATGAATTGTTTGCAATTTAAAAAAAACCTCTTAAGAAAAGTACTAAATCTGAATCATGT
TTTGAGCTTGTTTGCAGTACTTTTAAACATTATTCCTACTGTTTTTTGAAGTGAGAAAGTATCAGCCATTTAGCA
TTTAAGTTGGGGTATTTAGAGCCTGTAATCTAAATGCTGGCTCAAATTTATTCCCAGCTACTTCTTATACCACT
ATTCTTTTAATGTTTGCATAATCATAAGCACCTCAACACTTGAATACATAATCTAAAAATTATATAGTAAAGCTG
GTAGCCTTGAAAAATGTCAGTGTGATATCTATTATGTAGATAAATATATATAGTGGCCTTTTCAGGACTGTCACAGT
AACACTTTATTTACAGAGCTAATGTTTGTCTAAATTTTCAGGACCCTAGAGGAGAGCTTTATACAATTACCGAT
GTGAATTTCTCTAAAGTGATATTTTTGTGTCCAGTTATATTATTTAAAAAAGTGTTACTTTGTAAAAATTGTAT
ATAAAGAACTGTATAGTTTACACTGTTTTCATCTCGTGTGTGGTTATTGCTTAATGCTTTTTAACTTGAACAC
TCACTATGGTTAAATAAGGTCTTAAAAGAAATGTAAATATTCTGTTAATAAAGTTAAATATTTTAAATGATTTTTT
TTAAAAA

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FIGURE 1616

TCATGGCCGGCTCCTACCTGAAGGTGCACCTGCAATCCTCGCCGATAAGAGGCAGCAGTTTCGGAAGCCGGTTCC
TGAGCGATCCGGCGCGGGTCTTCCACCACAATGCCTGTTGATTATGAGATCAATGCCACAAATACTGGAATGAC
TTCTACAAAATCCACGAAAATGGGTTTTTCAAGGATAGACATTGGCTTTTACCGAATTCCTTGAGCTGGCACCT
AGCCAAAATCAAATCATTGAAGGATTGGTTCTTGGAGAACAAGAGTGAAGTATGTGAATGTAGAAAACAATGAG
GATGGACCTGGTTTAATAATGGAAGAACAGCACAAAGTGTCTTTCGAAGAGCCTTGAACATAAAACACAGACACCT
CCTGTGGAGGAGAATGTAACTCAGAAAATTAGTGACCTGGAAATTTGTGCTGATGAGTTTCTTGGATCCTCAGCC
ACCTACCGAATACTGGAGGTTGGCTGTGGTGTGGGAAACACAGTCTTCCAATTTTACAAACGAACAATGACCCA
GGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAACTGGTCCAGACAAATTCAGAATATGATCCT
TCTCGGTGTTTTGCCTTTGTTTCAGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAGTCTTGAT
ATTATCATTCTCATATTTGTTCTTTCAGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCTGAGCAGG
CTTCTGAAACCTGGGGGGATGGTACTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTTTAAAAAA
GGTCAGTGTCTATCTGGAATTTCTATGTGAGAGGTGATGGAACCAGAGTTTACTTCTTTCACACAAGAGGAACTG
GACACGCTTTTCACCACCTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGACCGCCGACTGCAGGTGAACCGAGGG
AAGCAACTGACAATGTACCGGGTTTGGATTCAAGTCAAAATCTGCAAGCCCCTTCTGTCCAGCACCAGCTAAGAG
GCACCTGCTGCCAACACGATGCAAGCCCGTTGTGTTTCCGAGCTTTTTTAAAAAAAATTTGTAGCACCGGGCA
TGGTGATGCCTGTAATCCCAGCCACTCAGGAGGCTGAGGCAGGGAGGATCCATTGAGCCCAGGAGTCCAGCCTG
GGCAAAATAGCGAGAGACCCTGAATCTGAAAGTAATGATAAAATAAAAAGAATATAAATGAGGTCTCGTTGATGC
TGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAATTATG
CTTCATATTTGTGAAGTCCTTTAAAAACATAATTTCTCAAGTTCTTTCTTTGAGACCTCAATCTGTCTTAGCATT
TTGTAACATAAAGTGAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGAAAAAG
TGTTATATATGACAAGTGTTTTTTGATTGTAATTGCGTTAAATCTTTGAGAGTGTAATGCCGGGCTAGGCAAT
TGCAGTTAATACATACAGGGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCAGATCA
GATATTTTCTTGAC

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FIGURE 1617

MPVDYEINAHKYWNDFYKIHENGFFKDRHWLFTFPELAPSQNQNHCLKDWFLENKSEVCECRNNEDGPGLIMEEQ
HKCSSKSLEHKTQTPPVEENVITQKISDLEICADEFPGSSATYRILEVCGVGNTVFPILQTNNDPGLFVYCCDFS
STAIELVQTNSEYDPSRCFAFVHDLCDDEKSYPVPKGLDIIILIFVLSAIVPDKMQKAINRLSRLKPGGMVLL
RDYGRYDMAQLRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTMYRVWI
QCKYCKPLLSSTS

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FIGURE 1618

CATGCTGAAAGCAGGGCGGGACCGGGCGGTCTTCCAGCAGGGAAAATGGCGCTGGCCATGCTGGTCTTGGTGGT
TTCCGCGTGGTCTGCGGCCCCGGGAGTGCTTCGAAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCG
GCCGGGCTTTCCAGTCCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCCAGCCATGTTTACAGAGCCAGCAAA
TGATACCAGTGGAAGTAAAGAGAATTCCAGCCTTTTGGACAGTATCTTTTGGATGGCAGCTCCCCAAAATAGACG
CACCATTGAAGTTAACCAGGTGTAGGAGAAGAAATCCGCAGAAGCTTATTAAAGTTAAGAACAACATAGACGTTTG
TCCTGAATGTGGTCACCTGAAACAGAAACATGTCCTTTGTGCCTACTGCTATGAAAAGGTGTGCAAGGAGACTGC
AGAAATCAGACGACAGATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGTGTGTA
CACAGGAGAGACACCGTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAGCGACCATCCTGGTT
CACCCAGAATTGACACCAAAGATGTTAAAAGGATAACTTCACAGTAAATCATTCTCCTGAAATAGAGGAAGATT
CTTTACGTGTTGTGCTTGTGTTTTTAAATCATCAGTATAGTTTAAACACATTCTTTCTAAGCAGTTTGTGTGGGAT
AATTTGAAGAATATATTATGAGTAAACTCCGAAAATTTTGTGTTATCCAAAGGCTCAATGGATTATGTTTCTATTA
TATACAAGGTTTTTAAGTAAACATAAAATTTCCAGAACAAAAATAAAAAATTTAAAATTCATAGCAAAAAAAAAA
AAA

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FIGURE 1619

MALAMLVLVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPWPWGPALAVQGPAMFTEPANDTSGSKENSSLLDSI
FWMAAPKNRRTIEVNRCRRRNPQKLIKVKNNIDVCECGHLKQKHVLCAYCYEKVCKETAETIRRQIGKQEGGPFK
APTETVVLTYGETPSEQDQGKRIIERDRKRPSWFTQN

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FIGURE 1620A

CTCGGGCAGAGCGCTAGGGCTCCGAGCGAACCAGCGAGCGAGCGAACGAGCGGGCGCTCGGCGGGNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGCGCGCCGGGCGAGGCGGGCCCGTCCGGGAGCGGGCTCCGGGGAAG
GGGTGCGGGTCTGGGCGCCGAGCGGGGAGCGGGGCGCGCTCCCTCTCAGCGCCAGCTCTACTTGAGCCCCACGA
GCCGCTGTCCCCCTGGCGCGCTCGGGGCCGCGGACGGGCGCACGCCGCTTCTCCTAGTCAAGTATCCGAGCCG
CCCCGAACTCGGGCGGCGAGTCGGCCACGGGAAGTTATTCTCCGGCTCCTTTTCTAAAAGGAAGAAACAGAAG
TTTCTCCAGCGGACAGCTTTTCTTTCGCTTTTGGCCCTGTCTGAAATCGGGGGTCCCCAGGGCTGGCAGGC
CAGGCTCGCTGGGCTCCTAATCTTTTTTTTAAATTCCAATTTTGTATTGGGCCGTGGGTCCCCGTGAGCTCCGG
CTGCGCGCGGGGCGGGAGGGCGCGCGCAGGGAGGGACCGAGAGACGCGCCGACTTTTAGAGGGAGGGATCGG
GTGGACAACCTGGTCCCGCGGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGACGCTGTTCTCT
GAGGTGTGCGCGCCTCCCTGTCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGG
GCGGCCGCGGACGAACGAGCGCGCAGCAGCCGCTGCGCGGCCGCGGAGGGCGGGGAAGAAAAACCCCTGT
TTCTCTCCGCCCCCACC GCGGATC **ATGT**ACAGGATTATCCCGGGAACCTTGACACCTCGTCCCGGGGACGCA
GCGGCTCTCTGCGCACGCCGAGTCTACTCCAGCGGCGGCGGCCAGCAGAAATCCGGGTAGATATGCTCTG
GCTCAGGCAGTGCAATTCATCCCCACCATCAACGCCATCAGCACCAGCCAGGACCTGCAGTGGATGGTGACGCCA
CAGTGATCACCTCCATGTCCAACCCATACCCTCGCTCGCACCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCTC
CTGGACACATGGCCCTCCCAAGACCTGGCGTGTCAAGACCATTGGCACACCCTGGGCCGAGGAGAGATG
AGCAGCTGTCTCTGAAGAGGAGGAGAAGCGTGCATCCGGCGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCC
GGAACCGACGCCGGGAGCTGACAGAGAAGCTGACGGCGGAGACAGAGGAGCTGGAGGAGAGAAGTACAGCCCTGC
AGAAGGAGATTGCTGAGCTGCAGAAGGAGAAGGAGAAGCTGGAGTTTCATGTTGGTGCTCACGGCCCATGTGCA
AGATTAGCCCCGAGGAGCGCCGATCGCCCCCAGCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGG
GCGCTGTAGTGGTGAAACAGGAGCCCTGGAAGAGGACAGCCCTCGTCTCTCGTCCGCGGGGCTGGACAAGGCC
AGCGCTCTGTCTCAAGCCCATCAGCATTGCTGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCATCTGTGG
TGACCTCCACACCTGTCTGCTACTCCGGGACCTCGAACCTCGTCTTACCTATCTAGCGTCTGGAGCAGGAGT
CACCCGCATCTCCCTCCGAATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACT
CCTTGAACCTCCCCACTCTGTGGCTCTGT**TA**ACCCAGTGCACCTCCCTCCCCAGCTCCGGAGGGGTCTCTCTCG
CTCCTCCTTCCCAGGGACCAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGA
GCTTCTGGCTCTGGGGGACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCC
ATGGGACCTCCTCCCTCATCTCTGCAAGCAAATCCATTTCTTGAAAGCCTTGGAGAACTCGGTTTGGTAG
ACTTGACATCTCTCTGGCTTCTGAAGAGCCTGAAGCTGGCCTGGACCATCTCTGTCCCTTTGTTACCATACTGT
CTCTGGAGTGATGGTGTCTTCCCTGCCCCACCACGCTAGCTCAGTGCCCTTTTGGTTTACCTTCCCTCGACTTG
ACCCTTCCCTCCCCAGCGTCAGTTTACTTCCCTCTTGGTTTTATCAAATTTGCCATGACATTTTCATCTGGGTG
GTCTGAATATTAAAGCTCTTCATTTCTGGAGATGGGGCAGCAGGTGGCTCTTCTGCTGGGGCTGACTTGTCCAGA
AGGGGACAAAGTGCAATACAGAGCCTTCCCTACCCTGACGCTCCAGTCATCATCTCCAGAATCCAGCGGGG
CTCCCTGAGCTCTCAAGGAGATGCTGCCATCACTGGGAGGCTCAGAGGACCCTTCTGCCCACCTTCGGAGACGG
CTTCTGGAGGAACGGCTTGGCCAGAAGACAGGGTGTGAGTGAGACAGTGGGGCACAGGTTGGGTTTGCCAAACGC
CTAATTACCAGGCCAGGAAGCATGCCAACAAGCCACACGGGTGTCCTAGCCAGCTTCCCTTACCTGGTGTCTT
GAGTAGGGCGTCTCCTGTAATTACTGCCTTGCCATTCTGCCCCTGGACCCTTCTCTCCGACCAGGGAGGCGTCC
CTCCCTAGGAGCCACACATTATACTCCAAGTCCCTGCCGGGCTCCGCCTTTCCCCCACCCTGGCTCTCAGGGTGA
CGCCACCCACAGAGATTTAATGAGCGTGGGCCTGGACCTTCCCCAGATGCTGCCAGGCAGCCCTCCCCAAGCCT
CAAAGAAGCATTGCTGAGGATGGAGAGGCAGGGGAGGGAGGCGGAGGCGTCACTGGAGTGGCGTCTGCAGCA
GCTGCTGCCCCAGCACCCGCTCAGCCTGTCTGGCTGCTCACCTCCCGCAGGGCACCGGGCCTTTCTGCCCCTC
TGTGGTCACTGCCACCTGCTGGATCAAGTGCTTTCTCTTTTACACTCCCTGTCCCCACCCAGTGCACTCTTC
TGGCCCAGGCGGCAAGCAAGCTGTGAACAGCTGGCCTGAGCTGTGCTGTGGCTTGTGGCTCATGCGCCATTCT
GGTTGCTGTGAATCTTTCTGGCTGCTGGAGTTGGAGATAGGATGTTTTGCTTCCCACTGCAGGAGAGCTGCCC
CCTTTACGGGGTTGGGAAGGGTCCCCCTGGCCTCCAGCAGGAGCACAGCTCAGCAGGGTCCCTGCTGCCACC
CCTCTGAGCCTTTCTCCCCAGGGTATGGCTCCTGCTGAGTTTCTGTCCAGCAGGGCCTTGACAGGAATCCAGG
GAGTAGCTCTGGCCAGAACCAGCCTCTGCGGGGCTGTGCTCTGCAAGACTCTGCTGCTGGGGATTAGCTCT
AGAGGTACAGTATCTCTGTTTGAAGATAATTAAGATCCCCCGTGGAGAAAGCAGTGACACATTACACAGCTG

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FIGURE 1620B

TTCCCTCGCATGTTATTTTCATGAACATGACCTGTTTTCTGTCAGTACACACAGAGTGAACAGCCGTATGCTT
AAAGTACATGGGCCAGTGGGACTGGAAGTGACCTGTACAAGTGATGCAGAAAGGAGGGTTTCAAAGAAAAGGAT
TTTGTTTAAAATACTTTAAAAATGTTATTTCTGTCATCCCTTGGCTGTGATGCCCCCTCTCCCGATTTCAGGGG
CTCTGGGAGGGACCCCTTAAGAAGATTGGGCAGTTGGGTTTCTGGCTTGAGATGAATCCAAGCAGCAGAATGAG
CCAGGAGTAGCAGGAGATGGGCAAAGAAAAGTGGGGTGCAGTCTCACAGGGGTAATCATCTCAAGTGGTA
TTTGTAGCCAAGTGGGAGCTATTTTCTTTTTTGTGCATATAGATATTTCTTAAATGAAGCTGCTTTCTTGCTTT
TATTTCTAAAAGCCCCCTTATACCCACTTTGTGCAGCAAAGATCCCCGTGCAGGTACAGCCTGATTTGTGGCC
AGGCTGGACAAATTCCTGAGGCACAACCTTGGCTTCAGTTTCAGATTTCAAGCTGTGTTGGTGTGGGACCAGCAGA
AGGCAAACGTCCAGCCAACACACAGGACTGTAAGAGGACTCTGAGCTACGTGCCCTGTGAAGACCCCCAGGCTTT
GTCATAGGAGGTCGTTACGCTTCCCCAAAGTCAGAGGTGATTTGATTTGGGGAAGACTGAATATTCACACCTAAG
TCGTGAGCATATCCTGAGTTTACTTCCTTATGGCTTGCCCTCCAAGTTCTCTCTCATACACACACACCCCT
TGCTCCAGAATCACCAGACACCTCCATGGCTCCAGCTATGGGAACAGCTGCATTGGGGCTGCCCTTCTGTTTGGC
TTAGGAACCTTCTGTGCTTCTTGTGGCTCCACTCGCGAGGCACTCGGAGGTGTGGACTCCGATGGGCTGCAGGC
AGCTCTGGGACGGCACAGGGCGGGCGCTCTGATCAGCTCGTGTAAACACACCCGCTCTTCTTGGCTCTGGCCAG
TCTTTCTGCGAATAGTCTCTCTCCCTGGCCAGTTGAATGGGGGAAGCTGCTGGCACAGGAAGGAGGCGATCCCG
GCTGAGGCTTAGGAAATTGCTGGAGCCGCTCCAAGCAGATAATTCAGTGGGAGGTTTTTCAGAGTCAAACATCA
TTCTGCCTGTGTTGGGGGCCAGGTGTGTACACAAGCATCTCAAAGTCAAAGCCATCTGGGGCTGCTGCTTCTC
TTTCTCAGGCTCTGGGGAAGGAATCTCCCTCTCTCTCACTTGATTCCAAGTGTGGTTGAATTGTCTGGAGCAC
TGGGACTTTTTTCTTTTTCTTTGATGGACCAACAGTGCAAATGCAATCTCGCCATTAACTTTCAGGTGCGATT
TCCTTTCTGATCAGACATCTTTGTGCCCCCTTTAGGAAGGAAAAGAATACACCTACGATGTGCCAGGCACTGTG
TTAGGCGCTTTTATATAGATCCTCGTTAGGATGAGACTAAGGGATGAGGACATCTCTTTATAAAGGCCCTAAG
TAATGGATAAACAGAAACACTTAGAGGTGAGAAGGTCTGTCTTCAAGATCCAAGGTAAGATTGCCCTTCAGTCTGA
TGTTTGTCTCAAGGACTTATCCCTACAATATTCTCCCACTCCATACTTCTCTTCTACCCACCATGTGCTCC
CGTGCACTCCTCAGATGGTCAGAGGGGTAACCCAAGTCTTAGAGAATTTGGGGACCAATAGAATATGTGATGTG
TGAATTTCTTTAAAAAAGTAAAGGAGTCTTTGTACCTTCTGCTTGTGAGTTGTTTTGGCATTCAATATAAAA
GCCAGCATCTCACTATTTATTGACAGGTGGGGCTGTGTGTGTGCGCATGTGTGTATACATTTCCAGGCGTGCCTG
TGTCCTGTAGCTTTTTAAAAAGGAAACCCAGTCATCCCACTATGAATCTGGCATCTTCTTATGCTTCTAGTGT
GGCCATACATCAACCAAGGGGTTAATTTATCCAATGCTTGACGACATGTTCAAGGAGGGGCTGGATCAAATTTG
AGAGGGTTATGGGAAAGGGAGGGGAGAGAAATGACATTTATTTTATTATTTTAAATGTTTACATCTTC
TTTATGTTGTATCAAGCCTGAATAGAACTGATAGCATTAAATACTCCGTTCTCTCTCTCTCTCTCTCTCTCT
TTTTTTTTTTTTTAAATTTAGGATAACACATTTTGTCTTAAAGTGATTTGTGATTTGTGCTGTATAAACTGTA
TAAAGGTTCTGTTTTTAAAGGTGGATTTTCATTCCTCTGGGGACAGTGGTCGCCAAGACATCTACATTGTAAGA
GAACACAGTGGAAGATCCTGTCTGATTCTCAAAAATTATTTCTCTGTATGATTAAAGTTTATTCCATTTATT
TTAGTTGTGTTTACTTGATTTTGAGGAAGAAAATATTTGACTTTGTGTAAAGAGTAGGGTATCAGGGTGTCTTT
TCTGCGGTGGGAGATGTGTATATATATAGTATTTTGGTGTATAGTAGAAAATAAGCTTTGTGCATCTGTATTGA
GATATGTTAATGACGTGGAGTAAAGTCAGCTGTAAGACTCTGGAGGCAAACAAGTTGTATATGGTTCATATGGCT
CTATGGGGAATTTAATTACCTTTCTGGGCACTTTTCTTTTTTTTTTTTTCTTAAGTAATGGTGAAATGGTCCCAT
TGGAGAGTCTCCTAAATAGACCTTCCAGGCAGAACCGCAAGCTCAAATCTTTGTATAGTTTTGAAAATTGAGGA
GTAGCTTTGTTTGGAGCCTTTNN
CAAGCCTACAGTATTTGCACTAAAGAAAGCTTGTTAGAAAAAGCTTGCTGCTATGGAAGAAAGACATATTA
CTCTTTCCCTTGCATTTTTTTGGGNGAGGGGGTTAGCATTTCCACTTTCAG

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FIGURE 1621

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMFGSGSAFIPTINAITTSQDLQWMVQPTVITSM SNP
YPRSHPYSPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSP EEEEEKRRIRRRERNKLAAKCRNRRRELTE
KLQAEETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPFAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVISTPAVTPGTSNLVFTYPSVLEQESPASPESEC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1622

CTGAGGCAGGGGTCTCTGGGGGCGAGGAGGGCGCGTCTGCCCTCTGCCCCCGCCGGCACCCCTGGCCATGACAGGCA
AGTCGGTGAAGGACGTGGATCGGTACCAGGCTGTCTGGCCAACCTGCTGCTGGAGGAGGATAACAAGTTTTGTG
CAGATTGCCAGTCTAAAGGGCCGCGATGGGCCTCTTGGAACATTGGTGTGTTTCATCTGCATTTCGATGTGCTGGAA
TCCACAGGAATCTGGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTCGACCAGTGGACTCAAGAACAGATTCT
AGTGCATGCAAGAGATGGGAAATGGAAAGGCAAACCGACTTTATGAAGCCTATCTTCTGAGACCTTTTCGGCGAC
CTCAGATAGACCCAGCTGTTGAAGGATTTATTTCGAGACAAATATGAGAAGAAGAAATACATGGACCGAAGTCTGG
ACATCAATGCCTTTAGGAAAGAAAAAGATGACAAGTGGAAAAAGAGGAGCGAACCAGTTCCAGAAAAAAATTGG
AACCTGTTGTTTTTGAGAAGGTGAAAATGCCACAGAAAAAGAACCCACAGCTACCTCGGAAAAGCTCCCCGA
AATCCACAGCGCTGTCTGATGGATTGTTGGGCCTTGATGCTCCTGTGGCCTGCTCCATTGCAAATAGTAAGACCA
GCAATACCCTAGAGAAGGATTTAGATCTGTTGGCCTCTGTTCCATCCCCTTCTTCTTCGGTTCCAGAAAGGTTG
TAGGTTCCATGCCAACTGCAGGGAGTGCCGGCTCTGTTCTGAAAACTGTAACCTGTTTCCGGAGCCAGGGAGCA
AATCAGAAGAAATAGGCAAGAAACAGCTCTCTAAAGACTCCATTCTTTCACTGTATGGATCCCAGACGCCCTCAAA
TGCCCTACTCAAGCAATGTTTCATGGCTCCCGCTCAGATGGCATATCCCACAGCCTACCCAGCTTCCCCGGGGTTA
CACCTCCTAACAGCATAATGGGGAGCATGATGCCTCCACCAGTAGGCATGGTTGCTCAGCCAGGAGCTTCTGGGA
TGGTTGCCCCCATGGCCATGCCTGCAGGCTATATGGGTGGCATGCAGGCATCAATGATGGGTGTGCCGAATGGAA
TGATGACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGTATGGGGTCCAGCCAG
CTCAGCAGCTGCAATGGAACCTTACTCAGATGACCCAGCAGATGGCTGGGATGAACCTTCTATGGAGCCAAATGGCA
TGATGAACCTATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAAATCAGACTCTCAGTCCTCAGATGTGGA
AATAAAAAACAAAACACCTGTATGGCTGCCATTCTCTTCAGCCCTCGCTCTCCCCTTTCCACAGCCTCCACCCCTG
ACCCCATCCTCTTTTCTACCTCTCTGTTTGGTTTGAATAATGCTCAATAAGTCATTGGGGTTTGGCATCCTG
CCCAGCCACTTCCCAAACATGAAGACCTCTCTGTTGCTTTATGTTGTACATGCCCCATAGCCATCCCAACGTCCT
CCCCAGTCCTCTCCTGGCACACGACCTTAGAAGTTGTTGGCAGAAGGCACCTTAACTGTGGGAGAAGTGTGCAC
ACCTTTGAGTCCCTTCCCTCAAGGTTAAAGCTCCTGTCAGACTCTCAGAAGGGTCTGTGGGTGTTGTATATTAGG
CAAAACAGGGGAAAGCTTAGAGGTCCTTCTATATGTGTTAATAAGCTGTTTCTAAGTGTAAATTTGAAAAGCAT
CATGTTCTCATGATTTATGGGAATGAAGCAAGTACTGAAATCAAATTAATACTCCCTGGGTCTGGGTGAGTTT
GACCCTAGCCCTGGGGTGAGGCAAGCCCCCTCCTATGAGGATGAGCAAAAATACTACTCTCTTCGCCCTGAGTTG
CTTTCTGGATCTGGGGCTTCAGGACTTGCTGCTTCAGTCAGCTTTTATTAGCACCAAAGACTTTATGAAGATCCC
ACACACAGACACACATCCCTTCCCGCCTCCCCCTGCCTTCAGTAGGATCTGGCTCCGTGGCTGGAGGACCAACC
CCTATAGTGGGAATGCAGAGCTTAACGTGTACTGCTTGTGTGTGTGCGTGAGTGTGTGTGTGTATGAGTGTGT
GTTCCGCCTCCCACCTCTCCCCATCTGCTCTGGGTATTTTTGTTTTGTTTAGTTTTAGGTTTACAACAGAGAG
GAATTAATTTATCAGCAGCCTAAACTGTTGTGTTTTCTTATGGTTTAAAAACGCCATGTCATTGATAACTCC
CTTTCTCCCTTCCCTTCTCCCGTCTGCTGATCACTTTTCATGCCTGTGTATCCAGGGTGCTCTGTTTCCCCAC
CGTTCACAGGTGTACGAGGCAGAGGGCCGGGACAGCTTCTCTCAGTCATTGTTACCCCACTTGAAAATTCAG
ACAAGAAAACCTTTGCTTAAAGATTTTCATGTGTGGGAACACAGTTCTCGCTGCCTTTCTCTGTGTATGTGTA
AATTCCTTAATAAATATTGCAGGGAAA

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FIGURE 1623

MTGKSVKDVDRIYQAVLANLLLEEDNKFCAQCQSKGPRWASWNIGVVICIRCAGIHRNLGVHISRKSVNLDQWTQ
EQIQCMQEMGNKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLDINAFRKEKDDKWKRGSEPVPE
KKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASVPSPSSSGS
RKVVGSMPTAGSAGSVPENLNLFPPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSF
PGVTFPNSIMGSMMPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGVPNGMMTTQQAGYMAGMAAMPQTVYG
VQPAQQLQWNLTQMTQQMAGMNFYANGMMNYGQSMGGNGQAANQTLSPQMWK

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FIGURE 1624

AAGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTC
AAAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCCGGAATACCAATAAAAAATT
GTGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAA
CCTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAACTGTTTCAGGTCCATTATCAAAACGAGCAAAATTT
GTTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAACAGGTGTAACCTATTAGTCAGGTGGATGAAGAA
ACGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGAT
GATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAATG
GTAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTGATCAACGAAAGATTAAACATCCT
ACTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACCTTTGGACGTGACCCAGCCGATGGAAGAATG
AGGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTA
ATGGGAGAACCTATTTTACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTTAAAGAGAATTCTAGAATTCTAT
TTTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCATTGTGTAGATTTCTATATAATATAAA
TACATTTTAATTATTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1625

ATGGCGCCGAAGGTTTTTCGTCAGTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAGCCTACAGCACC
ACCAGTATTGCCAGCGTCGCTGGCCTGACCGCCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCCTT
GAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTGCAGCTGCTGTCGGGGCCGTGTTTGGCCTCACCACCTGC
ATCAGCGCCCATGTCCGCGAGAAGCCCGACGACCCCTGAACTACTTCCTCGGIGGCTGCGCCGGAGGCCTGACT
CTGGGAGCACGCACGCACAACCTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCTCCCTGGTC
AAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAAACCCAAGGTG

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FIGURE 1626

MAPKVFRQYWDIPDGTDCRKYSTTSIASVAGLTAAAYRVTLNPPGTFLEGVAKVGQYFTTAAAVGAVFGLITC
ISAHVREKPDDPLNYFLGGCAGGLTLGARTHNYGIGAAACVYFGIAASLVKMGRLEGWEVFAKPKV

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FIGURE 1627

AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAGTGAAGTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACACG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGIGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCAGAG
TGTCGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
ATCCACAGGCAGTTGTGTTCCCAGCAATTCTCCCATCCTGCATGGTTACACCAAGAGAACCTTCAGATCCTAC
CAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCCTCTTGCAAGTCCCCTTTGCCCATCCTGAATGCACAGTCTCCCTGCTCATGCCCTTCA
GTCCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
CGGAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
GAGGGGCAGTGTGTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
CGGGCAAGCCTCTGATTTGCACACCTGAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAACTTTTTTG
GAGTAGGGGGTATAGGGGAATCATTTAATTTAAATCATTAGATTCCCCTGCTCAAACCCAGATTCTGTGTACA
GATGCTATTTAGAGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACCTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAAGTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1628

MVEISLKS VISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRPLSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPKRPGATSI SRTASLPLLQSPICPS

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FIGURE 1629

GGAGGGAGAGGCTGAATGTTGGCTCGGTAATTGAGAGGAGCGGCCGCTCCAGAGCTTCCTCCCGGGGCGCCCCC
TCAGTCCGTCCGCGCTTCTCAGCCGCCAGTCTCCTGGCCGCGCAGTCCCCGCGGACGGCCGGGCGCGGAGACCC
TCGCAGAAGAGGCGCTGCCGGCGGCGAGGACTGGCCGGCGGCATCCGAGGCGCGCGCCCCACCGCCACCCCCACC
CGCCTGCCAGCCGGTCCCTCCGGCCGCCGCCATGTCCTCCTCCTCTCCTCCCCAGGGAGACGTAAGAGGAGGA
CCGGGAGTACGAGAGCCAGGCCAAGCGTCTCAAGACCGAGGAGGGGAGATCGACTACTCGGCCGAGGAAGGCGA
GAACCGCCGGAAGCGACGCCCGGGGCGGGGCGATGGCGGCGGCGGCGGCGGAGCTTCTCTCAGCCGGAGGC
AGGTGGAAGTCATCATAAAGTTTCTGTTTCACCCGTCGTCCATGTTTCGAGGACTCTGTGAATCTGTGGTGAAGC
AGACCTCGTGGAAGCGCTGGAATAATTTGGGACAATATGCTATGTGATGATGATGCCATTTAAACGACAGGCTCT
AGTGGAATTTGAAAACATAGATAGTGCCAAAGATGTGTGACATTGCTGCAGATGAACCCGTGTACATTGCTGG
TCAACAGGCTTTTTCAACTATTCTACAAGCAAAAGGATCACTCGGCCAGGAAATACTGATGATCCATCAGGAGG
CAACAAAGTTCTTCTGCTCTCAATTGCAATCCGCTTTATCCAATTACAGTGGATGTTTTATATACTGTATGCAA
CCCTGTTGGCAAAGTGCAACGTATTGTTATATTCAAGAGAAATGGGATACAAGCAATGGTTGAGTTTGAATCAGT
CCTTTGTGCCAGAAAGCTAAAGCAGCACTCAATGGAGCTGATATATATGCTGGATGTTGCACACTAAAAATTGA
ATATGCACGGCCAACCTCGTCTAAATGTTATTAGGAATGACAATGACAGTTGGGACTACACTAAACCATATTTGGG
AAGACGAGATAGAGGAAAGGTCGCCAGAGACAAGCCATTTTGGGAGAACACCCTTCTTCGTTTAGACATGATGG
CTATGGATCCCATGGTCCATTATTGCCTTTACCAAGTCGTTACAGAATGGGCTCTCGAGATACACCTGAACCTGT
TGCTTATCCATTACCACAGGCTTCTTCTCTTACATGCATGGAGGAAATCCCTCTGGTTTCAGTTGTAATGGTTAG
TGGATTACATCAACTAAAAATGAATTGTTCAAGAGTCTTCAACCTGTTCTGCTTATATGGAAATATTGAGAAGGT
AAAAATTTATGAAGACCATTCTTGTTACAGCACTGGTAGAAATGGGTGATGAGTATGCTGTAGAAAGAGCTGTCAC
ACACCTTAATAATGTCAAATTATTTGGGAAAAGACTTAATGTTTGGGTGTCTAAACAACATTTCAGTTGTTCCAAG
TCAAATATTTGAGCTGGAGGATGGTACCAGCAGCTACAAAGATTTTGCAATGAGCAAAAATAATCGCTTTACAAG
TGCTGGCCAAGCATCTAAGAATATAATCCAGCCACCCTCCTGTGTTTTGCATTATTATAATGTTCCATTGTGTGT
CACAGAAGAGACCTTCACAAAGTTGTGTAATGACCATGAAGTTCTTACATTTCATCAATATAAAGTGTGTTGATGC
AAAACCTTCAGCCAAAACACTTTCTGGGCTATTAGAATGGGAGTGCAAAACTGATGCAGTAGAAGCCCTTACGGC
ACTGAATCACTATCAGATAAGAGTGCCGAATGGTTCCAATCCCTATACATTGAAGCTTTGCTTTTCTACATCATC
CCATTTATGAAGAGAAGAGCATGTTAGAATTTATGTTTACCTTTATTACAATTTCAAAGCTACACTTCATTAA
AAAAAATCTAAAAATGGTTGATCTCATGTTGCCTTGCTTACTTTAAGATCCTGTTCTGTAATAAACATATTTTGC
CTTGAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1630

MSSSSSSPRETYEEDREYESQAKRLKTEEGEIDYSAEEGENRREATPRGGGDGGGGGRSFSQPEAGGSHHKVSVS
PVVHVRGLCESVVEADLVEALEKFGTICYVMMMPFKRQALVEFENIDSAKECVTFAADEPVYIAGQQAFFNYSTS
KRIIRPGNTDDPSGGNKVLLLSIQNPLYPIITVDVLYTVCNPVGKVQRIVIFKRNGIQAMVEFESVLCQAQAKAAL
NGADIIYAGCCTLKIEYARPTRLNVIRNDNDSWDYTKPYLGRRDRGKGRQRAILGEHPSSFRHDGYGSHGPLLPL
PSRYRMGSRDTPELVAYPLPQASSYMHGGNPSGSVVMVSGLHQLKMNC SRVFNLFCLYGNIEKVKFMKTIPGTA
LVEMGDEYAVERA VTHLNNVKLFGKRLNVCVSKQHSVVP SQIFELEDGTSSYKDFAMSKNNRFTSAGQASKNIIQ
PPSCVLHYYNVPLCVTEETFTKLCNDHEVLTFIKYKVFDAKPSAKTLSGLLEWECKTDAVEALTALNHYQIRVPN
GSNPYTLKLCFSTSSHL

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FIGURE 1631

GGCGGGCGAGCAAGCGAGCGGCGTCTCCACCAGCATCTGCCGCGGCCGCTTTGCCCGAAGCCCCGGGGACGAACC
GACGGACCGACCGCCTGGCGCACGGACGCGGGCGCTCGCTTTGTGTTGCGGGCTAGCGTCGGCGAGGCTTGAGCT
TGCAGCGCGGGCTTCCCTGCTTCTCGCGGCCACCCCGGCTCCGGCGGCCCTCGGCGCGCGAGGGCTGGAGGTG
CGGGAGCCGCTCTCCGCCGGTCGGTCCCCGCGCGGCTGAGCCCAGGCCGCCAGCGCCGCGGGCCCCGTGCGGTGTC
CCTGAGCTCCTGCTCCCCGCCGGGCTGCTCCGAGCAACGGTGCTTCGGAGCTCCAAACTCGGGCTGCCGGGGCAA
GTGTCTTCATGAACCCAGAGGATGTCGGGAAGCACTACAAGGGTCTGAAGTCAGTTGTTGCATCAAATACTTC
ATATTTGGCTTCAATGTCATATTTTGGTTTTTGGGAATAACATTTCTTGAAATTGGACTGTGGGCATGGAATGAA
AAAGGAGTTCTGTCCAACATCTCTTCCATCACCAGTCTCGGCGGCTTTGACCCAGTTTGGCTCTTCTTGTGGTG
GGAGGAGTGATGTTCAATTTGGGATTGTCAGGGTGCAATTGGAGCGCTACGGGAAAACACTTTCCTTCTCAAGTTT
TTTTCTGTGTTCTTGGGAATATTTTCTTCTGGAGCTCACTGCCGAGTTCTAGCATTGTTTTCAAAGACTGG
ATCAAAGACCAGCTGTATTTCTTTATAAACAACAACATCAGAGCATATCGGGATGACATTGATTTGCAAAACCTC
ATAGACTTCAACCAGGAATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACCTAAATATTTACTTC
AATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTGCACTAAAGATCCCGCAGAA
GATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAACAGAAAGTTGACCAGCAGATTGTAATCTACACG
AAAGGCTGTGTGCCCCAGTTTGAGAAGTGGTTGCAGGACAATTAACCATCGTTGCTGGTATTTTCATAGGCATT
GCATTGCTGCAGATATTTGGGATATGCCTGGCCAGAAATTTGGTTAGCGATATCGAAGCTGTCAGGGCGAGCTGG
TAGACCCCTGCAACCGCTGCTGCAAGACACTGGACAGACCAGCTTTTCGGGACCTTCCCGCTGCGCAACTGAT
CTTCGAGCTGCATGGACCTAATCACAGATGCAGCCTGCAGTCTCGCTAATGGAGCTGCCATTAGGGGAGTGTA
AACTGGGAAATGCTGCTCACTGACAGAATTAATAAAAAAAAAAATAACAGTATGAAAGTCGTTGCCCGTGAATCTC
TACTGTAGCATGAATTTATGGACAGTTAGATGCTTACCAAAAAGAAAAAAGGGAGGGTAGGGACCCAGATG
TACTTGAATGTGCAGAAAATACATTTCTGTCTCATCTTCCGTAATTGGAGGGCTGGGAGAGGCAGCTTTGCTCT
TCACCACACCTTGGACGGACACCTTCTTTCTGTTCCATGGCCTGAAGGAGTGATCTCTCTCAAAGACTCAGCCC
CTCACCTGGGAGGGCAGTGGTTGTGGGCATCCCTCCATGTACATTTTAGGAAACACTTGCAACTCTCATCTGAA
GAAGAAAACAACTCACTTTTGGGTTGAGATTTTGTGATGGTATTCAGCAAGTCACTTGGGCGAGCAGCACTTGGTC
TATCCTGGAAAGTCTCCTTTATAAGAGAAGTTGTGTAATTCATGTGCACCGAGCAAGGGCATTGGAAGACGTCATG
AGGCTGTATTTTAGCAGGACTGATCGTTTTTCTAAGTAGACCTGAGCTTTGTTTATCAGTGAAATTCAGGAGAA
AATGAGGTTAATGAAGAGGTATCAGTTAAATATCCCTTCTTCTCACCTGCCAAAATTAGCAGTTGGATTTTTG
GAAACTCTGGAATATTCTGGGTCAATTTTGTGTTGTATGTTTGTGTTTTCTGCTTCCAAAGGTGAAAGCTATGA
TACAGTTCCACTTAAATTTTAGTGTTTTCTTACTCAGCTCAAGCATTATTTTGTATTAAGTCTTAATCTGCATG
ACCTGTGAATCTGAATCCATCATCTCCCTTCTGCCAGCTTTTCTACAAACATTGAAATATGTTATTTGGTCAG
CACTTATTTCTAGGTTTACAGCCTTGGGAGGTTGTGGCATGTCTCCAGTCTGGCTGGGAAGAGACCAGCTGT
ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCTCCCT
TCTTTCTCTTTGAATGGAATTAACCCAAATTTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTTCTTT
TTCTTCTCCAGTTTTAGTTTTGCTTTTATTAATAAAGAAATAGTGCATGGCCATAGCTCCTTCACTTCTCTTA
TTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAGTACT
CTGTAACACAAAGTGGGAACCACTTCTGGTGCTGCCGCTCTGCCCCACTTTAGGTGGGAGGGACGAGTTTT
GCCCTCTAGATTTTAAATCCAGCTGGTGTCACCGGATGTTGCCCTCTGGGGAGCAGATATCAGTCTGTGGAAC
CTGGGAAAACCACAGGCACATTTTTCGGTGCGGACAGATTGCCAGCACATAACTGGGCAGCCAGCTAGAATACT
TTGTGGAATTAAGCGAGGTTTTCCATTTTCCAGCCCATGGTGCATGGTGGTGGCCGATGAATGTGTCAGTCTGCT
CAGAGAAAGGACAAAAGGAAATATTTTCAAACACTGTGTTCACTGTTTGGGTGTGTGTAAGGCTCTGCATGTGT
GTGTTTTTGTCTCTGTATAGGTAGAGGTATTCACATCTTACTCCGACTGTAAGGTTGTCTTACTTCATCTCTGCC
CCCACCACAGTTGCCATTTTGTAAATGTCTTCCAACATGGAGAAGACACGAGCTCTCTCAGTTGGCATCATTTG
TCTTTTTTGTGATTGCCTCATTCTCCAGTGAACCTCATCTGGCCAATTGATTCAGAATCAGGCAAGATCCCTGC
CCTTTGGCACATCCACTGAAAGGCCAAACAGCAAGTCCGAGTGAGTTTTAAATATTAATTAATCACCCCTTTATTT
TTTACACTTGAGAGTGATTGTAATAAAGGCTGTCATTAATAAACTTGTTCTACCTTAAAA

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FIGURE 1632

MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGVLSNISSITDLGGFDPVWLFLVVGVMFIL
GFAGCIGALRENTFLLKFFSVFLGIIFLELTAGVLAFFKDWIKDQLYFFINNNIRAYRDDIDLQNLIDFTQEY
WQCCGAFGADDWNLNIYFNCTDSNASRERCVPFSCCTKDP AEDVINTQCGYDARQKPEVDQQIVIIYTKGCVPOF
EKWLQDNLTIVAGIFIGIALQIFGICLAQNLVSDIEAVRASW

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FIGURE 1633

GGGAACCCACAGGCGCGCGCGCGCTGCTTCTGGCCGGGCGCGGGTTCGTGGTGCACCACGGGAGCGCCGCACCGG
CCGGCATGGAGGAGCGCGCGGATTCCGAGCCGACCCCCGGCTGCAGCGGCCTGGGTCCGGGCGGTGTTCCGGGCT
TTGGCGACGGCGGTGGAGCTCCTTCGTGGGCCCCTGAGGACGCCTGGATGGGCACTCACCTAAGTATCTAGAAA
TGATGGAATTAGATATAGGAGATGCCACCCAAGTTTATGTAGCGTTCTTGGTTTACCTGGACCTCATGGAAAGCA
AAAGCTGGCATGAAGTAACTGTGTAGGATTACCAGAACTCCAGCTCATCTGCCTTGTGGTACTGAGATAGAAG
GGGAGGGGTTACAGACTGTGGTGCTACCCCCATCACTGCTTCCCTCAGCCATAACAGGATAAGGGAGATCTTGA
AGGCATCTCGAAAGTTGCAAGGTGATCCAGATTTGCCGAIGTCTTTTACTTTGGCCATAGTGGAGTCTGATTCTA
CAATAGTCTATTATAAACTTACTGATGGATTTATGCTGCCAGACCCTCAGAATATTTCTTTAGAAAGATGACATC
CATGTTTCTGTATGCTTGTGTTTATTCATACAAGATTGGATTTGAGACCCATCAGACTGCTTCATCTTTTATCTCA
GAAATAGGGTTGACGTACATAGTGGGGTTGACTTCCCCATTCCATAAGGTTTTTATTCTGAAGAGTAAACTTC
CCCAGGTAGAAGACTTTCTCCTTCTTAAAAATATAGGGTGATTTCTTTAAACTTTGTTATCTAGAGACAGTTT
AATTACAGTTATATACAGGTTTATGCCTAGGATGTATTGAGATGGGTGGGACCTGTGTGCTGCTTTTGTCTATCCC
ACACTCAAAGTTGTCTCTTTGTTTCTTGTGCTGCCACTGCCAGCTCATTGTTGAGACTGCCATTTCTTTCTCTTACT
CAGCTCTCCCCAGTGCCTTTTGGCCACTGCAGCTACCGTAGAATGGCATTATATATGTACCTTGTACCCACTTC
TGTTTACTTTTTCTCTCCAGTAAAAAGTAAAGATTTCTTTCAATTGGTCTTCCCATTCAGTTACTGTTATTT
CTCTTTTTTGGTTAACTTTAAATCAAACTCAAAATATGTTTCATCCAGAGTGTGTCTTAAGTAACCTTACGTGTCT
TAAGTAACAGGGACCAGAGACATGTTACCTACAAGAGTTCTGGGCTATCCTTTTCTTATCACATATCATAG
CTTGAATATTACAACAGTGTGGGAGAGAATCAACCGTAAAAATGTCTTCATTAAATTAGACCCAGTTATTCCACTT
TTGTTAATGTCTCTCAAATTGTACAAAGTATAAAAAATTATATGCACAAAGATGTTCCAAGTGACATTACTTTTA
GTAGCCCAAATTATAAACCCTTTAAAGTTTGGGGTAAAGATTGGCAAACCTTTTCTATAAAGGGCCAGAAAGTA
ACTATTTTAGGTTTTTAAACCTACTGTCTCTGTCTATAACTTGTCAACACTGCTGTATGAAGCACAAAAGCAGCCA
TAGACAATACATAAAACAATACGGGCGTGGCTTTGTTCCAGTAAACTTTGTTTACAAATGTGGTGCCATAGTTTG
TCATCCCTGGGTCTAGGAAATAGTCAATAAACAGATATATACAAATGATACATAATGTACTTTATAAAAATTAGT
AATGAATATTATTAAAAACATGAAAATATTACCTTAAGTAAAAATTGCAAGACGGAAAAGTGATAAGTGGGTGT
AATCATGGCTGAAATAACAGACCAAGCATATGATAAAAAGATAACAAAGTAAATCAAATTACTAAGTGGTTATAG
TGGGATAGGAGGCAGAAAATGGATGACTTTGTCTTTTCTCAATGTTTTTATTGTTTATAATAAAAAATGTTT
TAAAAATTAAAA

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FIGURE 1634

GTCTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGA
GGCTCCAAGCAGTCTGGGAAGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCCGGG
AAGGGGCTAGGCCGGCTTGAAAAGAGCTGGAACACAAGAAGTGTGTTTAAATGAATGACGTACACATTTAAGAT
CTGTTTGGACGCGGAGGATAATCCTGTGAATTGCTAATAGTTCACGTTGGGTTGGCCCTTAGTGTTGACTTCAGTA
TGCTGAGACGGAAACCAACACGCCTAGAGCTAAAGCTTGATGACATTGAAGAGTTTGAGAACATTGAAAGGACC
TGGAGACCCCGTAAGAAACAGAAGGAAGAATGTGGGAAGGTTGTAG

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FIGURE 1635

GCGCGGACCTTTCAACAAGGGCTTTATTAATTCTCAGCTGCGGCCCTGGAAAGCGATGGAGGTGGCGGCTAATT
GCTCCCTACGGGTGAAGAGACCTCTGTTGGATCCCCGCTTCGAGGGTTACAAGCTCTCTCTTGAGCCGCTGCCTT
GTTACCAGCTGGAGCTTGACGCAGCTGTGGCAGAGGTAAAACCTCGAGATGATCAATATACACTGGAACACATGC
ATGCTTTTGGAAATGTATAATTACCTGCACTGTGATTTCATGGTATCAAGACAGTGTCTACTATATTGATACCCTTG
GAAGAATTATGAATTTAACAGTAATGCTGGACACTGCCTTAGGAAAACACGAGAGGTGTTTCGACTTCTACAG
ATTTGACAGCATGTGACAACCGTCTTTGTGCATCTATCCATTTCTCATCTTCTACCTGGGTACCTTGTGAGATG
GAACTGGAAGATTGTATGTCAATTGGAACAGGTGAACGTGGAATAGCGCTTCTGAAAATGGGAGATTATGTTTA
ATGAAGAACTTGGGGATCCTTTTATTATAATTCACAGTATCTCAGTCTAAATGCTGAAGAACATTCTATAGCTA
CCCTACTTCTTCGAATAGAGAAAGAGGAATTGGATATGAAAGGAAGTGGTTTCTATGTTTCTCTGGAGTGGGTCA
CTATCAGTAAGAAAAATCAAGATAATAAAAAATATGAAATTATTAAGCGTGATATTCTCCGTGGAAGTCAGTGC
CACATTATGCTGCTATTGAGCCTGATGGAATGGTCTAATGATTGTATCCTACAAGTCTTTCACATTTGTTGAGG
CTGGTCAAGATCTTGAAGAAAATATGGATGAAGACATATCAGAGAAAATCAAAGAACCCTGTATTACTGGCAAC
AGACTGAAGATGATTTGACAGTAACCATACGGCTTCCAGAAGACAGTACTAAGGAGGACATTCAAATACAGTTTT
TGCCTGATCAGATCAACATTGTACTGAAGGATCACCAGTTTTTGAAGGAAAACCTCTATTCATCTATTGATCATG
AAAGCAGTACATGGATAATTAAAGAGAGTAATAGCTTGGAGATTTCTTGATTAAGAAGAATGAAGGACTGACCT
GGCCAGAGCTAGTAATTGGAGATAAAACAAGGGGAACCTTATAAGAGATTCAGCCCAGTGTGCTGCAATAGCTGAAC
GTTTGATGCATTTGACCTCTGAAGAAGTGAATCCAAATCCAGATAAAGAAAAACACCTTGCAATGCTCAAGAGT
TAGAAGAATGTGATATTTTCTTGAAGAGAGCTCCAGTTTATGCAGATTTGATGGCAATACATTAAAACTACTC
ATGTGGTGAATCTTGAAGCAACCAGTACCTTTTCTGTCTATAGTGGATCCTAAAGAAATGCCCTGCTTCTGTT
TGCGCCATGATGTTGATGCCCTACTCTGGCAACCACACTCCAGCAAACAAGATGATATGTGGGAGCACATCGCAA
CTTTCAATGCTTTAGGCTATGTCCAAGCATCAAAGAGAGACAAAAAATTTTTTGCCTGTGCTCCAAATTACTCGT
ATGCAGCCCTTTGTGAGTGCCTTCGTGAGTATTCATCTATCGTCAGCCTGCTCCCATGTCCACTGTACTTTACA
ACAGAAAGGAAGGCAGGCAAGTAGGACAGGTTGCTAAGCAGCAAGTAGCAAGCCTAGAAACCAATGATCCTATTT
TAGGATTTGAGGCAACAAATGAGAGATTATTTGTTCTTACTACCAAAAACCTCTTTTAAATAAAAGTAAATACAG
AGAATTAAATTATTCTAACATATTGGCCTCTTTGTACTGGAAAAGTATTCAGTGGTACCTGGAGGTCTGGACAGTT
ATACTGTAACCTCTTAAGTTTTAATGTGCTAAATATATCTTGATGATTTTTTATTTTTTAAATAACATTGGAAAT
ATATTCAAGAGATTATGATTCTGTAAAGCTGTGGAATGAAGCTGCAGATTTAGAGAACATTGGCTTCTGAAAAA
AAAAAGAGTGAAGATAGTACTAGCAAGTATACTTATTTTTTAAACAGGCTAGAATCTCATGTTTTATATGAAAG
ATGTACAATTCAGTGTTTTAAAAATAAAAATATTTATTGTGTAAAAA

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FIGURE 1636

ADLSTRALLILTLRPWKAMEVAANCSLRVKRPLLDPRFEGYKLSLEPLPCYQLELDAAVA EVKLRDDQYTLEHMH
AFGMYNYLHCDSWYQDSVYYIDTLGRIMNLTVMLOD TALGKPREVFR LPTDLTACDNRLCASIHFSSSTWVTLSDG
TGRLYVIGTGERGNSASEKWEIMFNEELGDPFIIH SISLLNAEEHSIATLLLRIEKEELDMKSGGFYVSLEWVT
ISKKNQDNKKYEIIKRDILRGKSVPHYAAIEPDGNGLMIVSYKSFTFVQAGQDLEENMDEDI SEKIKEPLYWQQ
TEDDLTVTIRLPEDSTKEDIQIQFLPDHINIVLKDHFLEGKLYSSIDHESSTWIIKESNSLEISLIKKNEGLTW
PELVIGDKQGELIRDSAQCAAIAERLMHLTSEELNPNPDKEKPPCNAQELEECDIFFESSSLCREFDGNLKTTH
VVNLGSNQYLF SVIVDPKEMPCFCLRHVDALLWQPHSSKQDDMWEHIATFNALGYVQASKRDKKFFACAPNYSY
AALCECLRRVFIYRQPAPMSTVLYNRKEGRQVGQVAKQQVASLETNDPILGFQATNERLFLVLT TKNLFLIKVNTE
N

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FIGURE 1637

GTCTGGGGAGATTGGAGGGGACGGCAGCGTTCTGCATGACGGAGGCGCTGCCGGGGCCCGGGTCTGTGGGGGCC
GTGCTCTCAGGGCGTGTGCGGGACGCCACCTGTGCACACCTGCTCAGAGCACGGCTCCTCGCAGGGGTGAAGGGG
CAGACCAACGAAACCAGATGAGACCAACGACACCATGCGAGACACGCTTGACAGACACTGTTGTTTTGGAAATGTG
CTTCCCTCCATCTGAAATCTCATCCCTCCACCCGCCCACTCGGGCAGCTGTGCCGTGGGCAGGGCATGCGCTCCC
CTGGCTGAGCACCCAGAGATTCTCCTGCACCTTCCTCATGCCGCACGCTGCTCATCCGTCTCCATGTGTGTTTA
GATCCATGCCATTCACTGACTCACTAACACCTGCAAAATCTTTAAGGAAAAAGCTGAAGGGTACGACCATGCAC
ATATGTGACCTGGAAATGCAAATTTAGATCTTTTATGATTTAATTATTATTGTTTCCCATAGAAGTTCCCTCCC
TTTGAAATTAATATATAATGTATAAATCTGCACTGAGCCATGGCGGAGCTGGGCAGCCCCTAGGTTAGAGTGGA
GACGGAGGCCAGGCGCAGGGGTACACCTCATCTGGTTTTCTTCCCATCTCACAGCTTAGCTTGTGCTTCTCAA
CACCAAGTCTTTAAGAGCAATAAAAACTACACCATGAATGTTTGAATTTTTTTTTTTTTGGGGGGGGAGGGTGGA
TTTTGCTTTTCATCCAGAAGGAAAAGGGGAGGAGAGCTCCTTTACATTTTTTAAATTAAATTCATAATCCCAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1638

GGCACGAGGGAGACGGACTCTTGCTATGTTGCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAATCCTCCTGCC
TCAGCCTCCCAAAGCACGGGGATTACAAACCTGCTGAGGGATGCCAAGAAGTTCCAGGGTGAGAACACCAAGT
CGGCAGCGGCCCGGGCACGGAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATG
CCTACTGGAAGGACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCG
ACCAGCTGGAACGTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGC
CGCGGGTGGCCACGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGG
AGGCCCCGACACAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCTGC
TGGAGGAGGGCAGCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCG
ACCGGCACCCAGAAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAG
AGAACCCCAACATGCGGCTGTGCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCA
TGAACCAAGCGGGCCGTGCCCTTCAATGCCCCCAAGTGAAGCCCAGAAGTTGGGGAGCCAGTTACCCACGGGGTGG
TCCAGGTACGACTCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGC
CGGGCCCCGGGGCCATGCTCTTATCACCAGCCACCCGTCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCC
ATCCCTCCCATCCCCGGCGCGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCTAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1639

MPKKFQGENTKSAAARRARRAEAKAAADAKKQKELEDAYWKDDDKHVMRKEQRKEEKEKRRLDQLERKKETQRLLE
EEDSKLKGGKAPRVATSSKVTRAQIEDTLRRDHQLREAPDTAEKAKSHLEVPLEENVNRRVLEEGSVEARTIEDA
IAVLSVAEEAADRHPERRMRAAFTAFEEAQLPRLKQENPNMRLSQLKQLLKEWLRSPDNPMNQRAVPFNAPK

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FIGURE 1640

TTTTTTTATCATTGACAATGTTTATTATCAAGAACTTTAGGTTTTTTAAAAGAATGCTCGTTTTAGAATACAC
CAAGAGGACACTCTGTGACAGGACATATACAAACAAGGATAATTAAAATATTAAATACTATCTAAATTTAAAGAC
CATAATTCAAATTGCTAATTATAATATTTGTGTCGGTAGAAATAACTATAGTTCCCCTTCATGAAATTCACCCCC
- ACGTTCTCATGAAGACTATGACGTCTCACCACAATTTTCAGTTATTTAATTTACAATAATCAATGCTGAGTTTTCT
GTGCTGAAGCATGCACTGTTACAGAAAGCACAAAATCCTATTTACAGGGATTTTTAGTTTTCTTTAAAATGTATC
TCAAGCATCTTTTAAAGTGCGAGCTACAAATAGGTTGTATCCTTAATGAAAAAGGCTTCTTTCTAAAAGAAGTAT
GAGATAGCTATCCAATACTGCAGGAACAGTTATATACTAACCGAAGGAACCAGCAGCACTCTGCTAACTCTGTT
TTAGTGTAGCAACCTCCTTCTTGGTGTCTACTACCAGCCAXACATGTACTCCATTGCTTTGGATACCAGACTTT
CATCTTTTTTTGGCGTTTGTCTGTCAGAAATACCCTGATAATCACTAGTAGAGGC

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FIGURE 1641

GGCAGATCTCACGAGAGAGGATTGGCGCCCTCCTCTGTGGATTCTGGCCAGGCCGGGTTGGCGGTTGCTGTGA
GAGCGGGCTTCCCAACACCATGCCGTCCGCCCTCTCTGTCTAGCTCTTTCCCGTCAGCATCCCAGCCGTGCTCAC
GCAGACGGACTGGACTGAGCCCTGGCTCATGGGGCTGGCCACCTTCCACGCGCTCTGCGTGTCTCTCACCTGCTT
GTCCTCCGAAGCTACAGACTACAGATCGGGCAGTTTCTGTGTCTAGTCATCTTAGTCTACTGTGCTGAATACAT
CAATGAGCGGCTGCGATGAACTGGAGATTATTTTCGAAATACCAGTATTTTCGACTCCAGGGGGATGTTCAATTC
TATAGTATTTTCAGCCCCACTGCTGGTGAATGCCATGATCATTGTGGTTATGTGGGTATGGAAGACTTTGAATGT
GATGACTGACCTGAAGAATGCACAAGAGAGAAGAAAGGAAAAGGAGAAGGAAAGAAAGACTGAGGGGCAGC
AGCTGCTTGGAGTTTGCCTCTCCCGTCCACCCAGTGCAGCTCCAGTGCTGCAGTGTGCGTGGCGTGGGCATC
CTTCAGCTGACTCATGGTTTGAAAAACCGTTGTTTTATTTAAATATCCACAGTGGTAGGGCACACACTGAAGTT
GGCTTTTCAGCCAGCACTGAATGTATCCATCAGGACATGCGTCTTCAGGTGCCTGATCTTTGTAGTCAGGCTGTG
GGAACGGTCTCTGCAGAGCTTCATAACTGGGAATTTGATTTGAAGAAGTCCATGTATATGTGTAAGTACTACTA
ATTATAAATATAAAATACACAATATAAAATATGAACTCAATAATAAACAGTGCCACCTGTACATGGGCACCATG
CCCTCCTCCTGCTGTGTTTTCTAGTGCATGCCACAGTTCGCAGTAGAGGGTGTTCACCTTCCAAGACATG
GGGCAAAGTTTGGAGACACCTGGTTGTCAGTGGAGGGGTGGTGTCTCTGGCTTCTCCTGTGGAGCCCGGGGTGA
TGCATAAAATCCTGTGTGCCTGGGTGAGCCGCATCACAGACAATGACTTGACATGAAATGTCAGCTGTGCTGGGG
CAGAGAGACCTTGAAGGAAGCTCTTGGAAAATACGTTGTATCTCAGTTTGATGAACCAATTCACAAGAGGCTAG
GCCCTCTCTAGCAAAGTTATGGGCTGCTTTACTGAAAACAGAATGGAAGCCCTGAAGTCAACACTCCATGGAGAA
GCGTGTCTTTCCCTAATGTCTGGTGTCTGTGTTGATTTAGGTGCTTGGGAACACAATGCTCCAGTTCTGTTAGGA
CAGGCATACTGTTACTTTGCAATATCCACTTTATAAAATAGCTCCTGCCCAGTGGCTCTTGGTTCTGTCAAATG
TGGACCTGTAGTTTAAAGATGACAGGTGGTTAGAGACCCAGATATTTAAAAATAGGTGTTCAATAAGGGAATACT
GATTGTGCATTGTATCTGGATAGCATGCCTAATTGTGCAATTTCTGAAAGTTACCAATTCAAATGTAATTGGAAC
AGTTATCTTTGATTAGACAAGCCTGGGAAGAGAATGTTGAGGTGCAGAGCTCACCAGCCAAGTTTCATGCCCTCT
CGGGCCTTTGTGGCTGAGAAGTGGGACAGAAAGATGATTAAGGTAATGTGTCCTCCCTGTAGCATTGTCCAGGGC
CGTTGTGTAGATATTTGACTTCACTGACAGAAAAGAAACCAGGGAGTTTGTAGAGACTGTGCATTTTATGATATAA
CATTTTCACCATCTGATATGGTTTGGCTTTGTGTCCCCACCCAAATTGCATCTCAAATTGTAATCCCCATGTGTC
AAGGGAGGGACCTGATGGGAGGTGATGGGATCATGGGGTGGTTTCCCCTATGTTGTTATCATAATAGAGAGGGA
GTTCTCACAAGATCTGCTGGTTTTAAAGACAGCAGTTTCCCCTGCTGTCTCTCTCCTGCTGCCTTGTGA
AGAAGGTGCTTGTCTTCTCCCTCTGCCATGATTGTAAGTTTCCCGAGGCCTCCCGGCCATGTGGAAGTGAAGTCAA
TTAACTTCTTGTATTATAAAGTAAAAAAAAAAAAAAAAA

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FIGURE 1642

GCAGCCCCGGCGGCCGAACGCCCGGGCGGGGACTCCATCGTCAGAGAAGTCATTAGAATTCAAAAGAAGTTTC
TAAGTTTATTGCAAGAAAAAACCTGCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGTGACGAACCTTGA
TGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCCTCCCTCCAGATAGCA
GTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATCT
CTGAGAACTTGTGTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGAGTAACAGACATAA
ACCTGGGGAAGCTGGTGGAGGGGATGCCCATGAATGTTTTGTTTACCTGTTGCCAAAGCTGTAATTGAACCTC
TTGAAAAATCAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCCATGGGTCTTTGGAAGCTGCTC
TACAATGCCTGTGTTCCAGAGAAAAGGGTCCATGACAATGAGCATCCAGTGGAAAAACAGCCAGCTTCAAAGCAAGC
TTCACGAGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCCTTACTTGGATACAACCAGGAA
CTACTGTTCTCAACTGCTCCCATGACTTCTGTGAGGGAAGGTTGGGTGTGGCTCTCCAAGAATACATTTTGGTG
GACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTCAGAACATGGTCAGTAGTGGAAGGA
GATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCCTGTGCCAA
GTGACATTGAGATTTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAGATTGGATTGCTTGCGAG
ATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGGTTAAAGGATCAAGCAG
ATGGAATAACGCTCTTAGTTGCTGGGATCACACCCACCCCTCTTGGAGAAGGGAAGAGCACAGTCACCATCGGGC
TTGTGACAGGCTCTGACCGCACACCTGAATGTCACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACGT
TTGGAGTGAAAGGAGGAGCCGCGGGTGGTGGATATGCCAGGTCATCCCCATGGAGGAGTTCAACCTTCACTTGA
CTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCGCCATCGACACGAGGATTCTTCATGAAA
ACACGCAACAGATAAGGCTCTGTATAATCGGCTGGTTCTTTTAGTGAATGGTGTGTCAGAGAATTTTCAGAAATTC
AGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAAT
TTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAATGACCGATTCTACGAA
AAATAACCATCGGGCAGGGAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGACATCGCAGTGGCCAGCG
AGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGCCA
GTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACAGTTTTGATGAAAGATG
CAATAAAACCAAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTGTCATGCGGGCCCTTTTGCTAACATTG
CTCAGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAGGATTGTAGTGACCG
AAGCTGGCTTTGGTGCTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCTTCCGCTTGGTGCCCA
ACGTGGTTGTGTTAGTGGCAACGGTGCGAGCTCTGAAGATGCATGGAGGCGGGCCAAGTGTAACGGCTGGTGTTT
CTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAACTCCAGAAGCAAATTC
AGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGACACCCGCGCTGAGATTG
ACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCACTGGTCCGTTGGTGGA
AAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCTGTATGATG
TTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAAGATATTGAACCTCTCTC
CTGAGGCACAAGCCAAAATAGATCGTTACACTCAACAGGGTTTTGGAAATTTGCCCATCTGCATGGCAAAGACCC
ACCTTTCTCTATCTCACCACCTGACAAAAAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGG
CCAGCATAGGCGCTGGGTTTACCTTTGGTGGAAACGATGAGCACCATGCCAGGACTGCCACCCGGCCCT
GCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTCTAAGTGGACAAGGCTCTCACAG
GACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTGTGTCAGTTGGAGAAGAACTGAATTTGAAAA
ATGTCTGTTATGCAATGCTGGAGACGTTGGTGAATAGGCCAAAGATTTCTTCTCGTTCAAGATGAATTTCTGTTT
ACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTATTTCTGTTTCTGTGGA
GTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGATTAGGAGTGTGAACATAA
AAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATGGATCTAGAAAACCAAA
AAAAAAAAAAAAA

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FIGURE 1643

GTCTCTCTGCTCTCGCGGCCGACTCGCAAGATGGCGCCGAGAAAGACAGGAAGCCCAAGAGGTCAACCTGGAG
GTTTAATTTGGACCTTACTCATCCAGTAGAAGATGGAATTTTTGATTCTGGAAATTTTGAGCAATTTCTACGGGA
GAAGGTTAAAGTCAATGGCAAACTGGAAATCTCGGGAATGTTGTTTACATTGAACGCTTCAAGAATAAAATCAC
AGTTGTTTCTGAGAAACAGTTCTCTAAAAGGTATTTGAAATACCTTACCAAGAAATACCTTAAGAAGAACAATCT
TCGTGATTGGCTTCGAGTGGTTGCACTCTGACAAGGAGACCTACGAACTTCGTTACTTCCAGATTAGTCAAGATGA
AGATGAATCAGAGTCGGAGGACTTAGGCAAAGGCTCCCCTTACAGGGCTTTGCTTATTAATAAAATAAATGAAGTA
TACATGAGAAATACCAAGAAATTGGCTTTTAGTTTATCAGTGAATAAAAAATATTATACTCTTG

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FIGURE 1644

SSLLSRPTRKMAPQKDRKPKRSTWRFNLDLTHPVEDGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERFKNKIT
VVSEKQFSKRYLKYLTKKYLKKNNLRDWLRVVASDKETYELRYFQISQDEDESESED

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FIGURE 1645

CTAACTTTGAGTCAACGCTGACTACAGCACCAGGACTGCTCACTTCCAGCTTCTGCTGACACCTGCCCTCGTTTA
GTCTTTCTTGGTGGCTGCAGGTTCACTAGAACTCTATGCCAGGCTTTGTCTCCGGGACATAGGAGAGTGTGGT
GCTCAGTCATGTTTGTGAATGAGTAATAAATGGTAAAGGTTGTTGCTGCCCCGAGACGTTCAAGAGGAAGCAG
CCCCCTAACCCAGCTGGGAGGAGGAGGAAGAATCCTGGGCTGGTCAGTTGGGGAAGGAGCTGAGCAGGCCGGGC
CACCTGGGCTGACACAGCAGCAGCACCACGTGGATGGGATGCCTGCAGTCAGCTGCAGGAGGGCCTCGTCGGGAG
GCCACAGGGCCCCCTCTTTGTCTTGAATGGAGACCTCCAAGGCTCCAGGACATAAAGGGCCTTGGCCAAGCTGTT
CCTGGCCACCTGGCCACATCTCCAGCTGCACCAGTTCTCACCTCCATTCCCCACGGCCCCAGCTGTTCAGGTTTAA
GGGTGGCAGAGAGCTCCATGCACCCCCCTGGCCTTGGCCTCTTCTGGGGCTTAGAGCTCCAGGACTTTTGGGCTG
TGCACCTCAGCGTCCCCCTTACGACTCCGGCGAGGACGGCCAGGTGCCTGGTGGACTCTTGACAGTGTCTCAGC
CAGGAGACCTCATGTGCGCTGTCTGAGCCACCTGTGTCTCAGATGTTCCAGGTCATCCAGCCAGAGCGTGGC
CTGTACATCCAGGCCAACAACTGCGTGGAGGCCAAGGACTGGATCGACATTCTACCAAAGTGAGCCAGTGCAAC
CAGAAGCGCCTCACCGTCTACCACCCGTCGCGCTACCTGAGCGGCCACTGGCTGTGCTGTAGGGCGCCATCCGAC
TCGGCTCCGGGCTGTCTGCCCTGCACTGGCGGCCTCCAGCCAACATCCAGCTGGACATTGATGGGGACCGTGAG
ACGGAGCGTATCTACTCCCTCTTCACTTGTACATGAGCAAGCTGGAGAAGATGCAGGAGGCCGTGTGGGAGCAAA
TCTGTGTATGACGGCCCCGGAGCAGGAGGAGTATTGACGTTCTGTCATTGACGACCCCCAGGAGACCTACAAGACG
CTAAAGCAAGTCATCGCTGGGGTTGGGGCTTTGGAGCAGGAGCAGCCCCAGTATAAGAGGGACAAGTTCAAGAAG
ACGAAATATGGAAGCCAGGAGCACCCTCGGAGACAAGAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACC
TCCACTCATTCCATTTAAGTCTGCGGGACGCGCCAGTGGCGCCAGCAAGCTGCCCATGCAAAGCCGAGCCTT
TGGGAGGGAGAAGAGAAGGAAGAGCGCAGAGCCGGCAAGTGAGATGCACGCCGTCCCGGCCATAGACAAGTGG
CGCTGGGGTTTCCCTCTCCAGAACCGCTGCCACCACCGCCACGCCCTCCGCAGAAAGCCCACCTGGCCCTGTGG
AACGTGTGTCATTTGATTCTGTGCTTTTTGTCTCTTGTGTTGTGGGATCTGGGGATCAGCTGAAGGATCAGGAA
GTGTGGGCTGTGCCCTAGCCACACCACAGCCAGCCTCAGGGAGCCACGGCCCGTCTAGTCGACTGTGACATGCAC
CTCCGGCCGTGTGTGCGTCAGTCTCGTGCACGTCTGTCTTGCCTTGACGGTGCCTGTGACGCTGGGCTCTGTGG
CTCTGTGCCCGGGAGGCCTGTGGCCCCGCTCGGCTTTCGGCTTCATCACATTGGGAGGTTTCAGAGCATTACTC
TCCCACTGTGCTGCCATCCAGGCAGCCATGGGAGGCGGCCTCCCTGTTCCACTTTCAGAGTTCTGTTTATTCTT
GGCTGAGGGGTCACTTTTATGGCTGGGAGGTGCAGAATTACACAGAAGTCCAGTCTGAGGATGTCTTGGTGTCT
TGGGGGATACGGGTTCTGTCCACAGAGTCCCTTGGAGGGAAAGGTGTGGGCTCCAGCTTCTCCAGGCGTCTGCGG
AGCCACAGTTGAAGCCACATCGTTTTGTCTGTGAATGGGGTTTTAAATCAGAATTAACATTTGCCACCCCCCG
TGGAAGTTTGAAGATTTTAAAAATAGAAATGTACATTTTCAAGCTGTTTTCTTTATGTTTTTGAAGGACCATT
TTTAATTAGCTCTTTGATACAAAGTAACTCAGAACGTCAAAACCTATACCCACTAAAGGGAAGGCTGCCGGGAAG
GCAATGGAACAGGAATGGAGCCTGTCTCAGGAAGGCCAGCTGCAGGTCTCCAGAAAAATCAAAGAAGGGAAGAA
ACTCTGAGTTTGAGGTACAGGGGCTTCGGGGTGCAGACGTCCCTCCAGGGCCCATGGTCAGTATTGCACCTGTGT
TATGAACCCCCAGATGTGTGCAGGGCAGGGGCGGGGCTGTGTTTTATTGGGGAGGGGAGCATCCTAAAAATG
GGGTCCAGGCAGACCCCTCCAGACCTCACACTGCCGAGGAGGCCTTTCCCAAAGGGCGTCTCCCGGGATGCAGA
CGGCAGGTGTGTGGGAAGCGCGTTTAAATACACAGCAGCAGTATCCTTGTACCGACTTCTCCCGGTTCTTGTT
TGAAAATACTGTAGTTTCAAGCTCTTGATCTAGATGGCAGATAGGAACCTTCTGTGCACAAAAATACTGGAGGAAA
ATGTTGTAAAAATAGACTTTTGGACACACAGCTGTTGGGGCTGCACTGAGCTGCAATTTTTAACATGGATTTATA
ACTTAATGTTTCTGTTTATAAAATACTAATGATTTGCAATGTATTTTACTGGCCAATTAACAGATGTTTTATT
CTTTCTGAA

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FIGURE 1646

MFQVIQPERALYIQANNCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLPAN
IQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVIDDPQETYKTLKQVIAGVGALEQEH
AQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI

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FIGURE 1647A

ATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAAGGTAGACAATTGCAGCCTGCGGAGAGGCCT
CCCCAGCTCAGACCTGGGGCCCCCTACCTCCCTACAGACAGAGCCACAAGACAGGAGCCCAGCACCCATGAGTTGT
GACAAATCAACACAAACCCCAAGTCCCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGCAATGGCTTCCATGAGG
CAGGCTGAACCTGCAGATATGCGCCCAGAGATATGGATCGCCCAAGAGTTGCGGCGTATTGGAGACGAGTTTAAC
GCTTACTATGCAAGGAGGGTATTTTGAATAATTACCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGA
CTGTTACGTTACATTGTCCGCTGGTGTGGAGAATGCATTGACAGGTTCTTTGCGGAGCCGAGATACCATGCAGA
CATTTTGCTTGTTCAAACCAACAAGACCCAGCAGCGGTCTCCTGGTGCCATTATTATGCAGCCAGCGGTTCTC
TTGTGGAGGGGGCAGGTGACGTTTTCAGAAGACACCGAGCTGGATGGGACTACCTTTCTGTTTCATCACCACACAGC
AGAATTTCTAATGGAAGTTTGTGTGAATGTAAAGGAGGGAGCATTCTTTGCTTTTTTAATATACAAACCATGGTT
TTTTGGAGCAGGATTTTGTGTAAGAATGGTGTTCATGCAGTGTGTTTTCCCCCTCACCTTCAATAAGGTTTTT
CAAAAAGGAAATGGAACTTTTTAACCAATTTGTGAATAACTTTTTGTATTAAAAATTTAAGAACCTACGGCCTAT
TCTCAGAGGATTATTAACCCCTGCAGTGGAACTGAGCCAGCTAAGCTTAAAAAGCTGCCTTAGTTTATTTTTAG
AGATTACAGAATTTTTAAACAGGGAGACGTGTGATATACTCCCTCCCTTCCCTACTATTGCCTCTCTGACCTTTT
TAAATTTTTTAAATACCAAAAGAGTTCTTTTGAAATGGAAGTGAATTAAGGGCAGAGGGTCTGTTGCCAGCCT
GCATTGATATACCAGTCCCATTGTAAATTTTACGTACCTTTATAAATTCAGTTGCATCTGTGGCAAAATTTCA
GACTATTTTTCGCTCTTCTCTCATCACTTTTTGTGATGCAACTCCAGTCTGGACTCAGATGCATAGATTTGGTCC
AGTGTATTTTCATGATAAAGTGAAATTTGAGTCAGAACAAGAGTTAATATCTGCCTGTATCTTGCACAGTTTCGAGC
GATCTGTATTAACTGGGAAGCATTGGTGTGGTTTTTCATTCCATTTTCGACGAGCATGTTATTGGGAAGTATTC
TGAAGAGGCAATAGCAGTAATAACAACAGACTTAAGTGCTACGCCCCCTTTGTGCTGCTGGCTTTTCTGGTTGCAG
GCTTTCCCAATGGTTCAGGATGCACTGTGAGCATCAGGTCAGAGGGCCACCGTGTCCATTACAGCAGAGTCCA
GCTGCAGCATCCAGCTCACGCCCTCATGGGAATTGGCACAGGCCTGGGGCAGGGCTTCTGATGGCCATTGCTTG
GCCTCCTGCATTTTAGTCCAACCTCAGTCCACTAGCTTCACTCCTTTAAATTCATTTGAAACAGGCCTCATCC
CACCTCCACCAGCACCATAGAAGAATAATTCTGGGCAGAAGTCTGTTTTTTTTTCATTTTTCCAGGACAGTTGGAT
ATTGTCAGGCCACTTGTGACCCAGCCATGTAGTGAGGGTGTCTTTCTCTGTGCCTGTCTCTTATGAGTGCAGT
GGAAGGAAGCCACACACTGGTCAGTCATTTCAGAGGCAGCAGATGCCAGGGAGACCCAAGAAAGAGTCAGGTTA
GGGAGCAGTGAAAGTGAGGAGGGAAGACAATTCTGTGAACCTGTAACTCTTAAAAATTTTGAAAACCTCCATCGT
TAAACAACCTTTTAAAGAAATAACTAAATTTTCAAATGAGTAAGCAGTGCCACCAACTAGTGTTTTGCCCGATAG
AAGAGCCAGCATGTTACGTTATTTAAATTAGGTGAAAAATCTAAACATTTTTATCTTCATAATTTAAAAAATA
TATATGTATATATTGCATATTCATTTTTCTTTAGGTAGAGATGATTTCAATCCAAATACTCTTACTTTAAAAA
ATTTCTTTTCCCCAAGAATCTCCTTGGGACTTTGACTTATTTTTAAAGCTGTGTTGGAGCTCATCTGTTCCCTG
ATGTGTCTCGAGCCCATTGGTAGGGTCATACAAAGCCACGGTTACAAGCAGTGGTAGGATTGCAGCCGTGGGCC
TGCTGGACACACATACACCAAAGATGTATTGGATCTGGGCACCCCTCCCAGGATCCCTGTACTCAGTGCC
AGTCTCCTGACTAGAGCACTTTACTCTGTTTCTCAGCCCTGCAGCCCTGGGAGCACACACTGGGTGCAGCCCT
GGGCCAGGCACGGGAGGCCCTGCCCTGTGCTGCCAGGGCTGTGTGCACCACATGAGCACATTTCCCTCTGGCC
TGGCGGCCCTCCAGGCTGGCTGTGGAAACAGTTCTGAGGAAATTAGAGATTCTATGAATTGTAGGAGTATTAAG
ACCAGGCTGTTGGCACCAGAACTTAAAGCGATGACTGGATGTCTGTACTGTATGTATCTGGTTATCAAGATGC
CTCTGTGCAGAAAGTATGCCTCCCGTGGGTATACGTTTTTACCTTTTTTAAAAAACATTTTGTAGAAAAATAA
TTAAATCCCTTTTTTGGAACTTACTGCAGTTTTTGTGCTTGACAACCTCTCCCTATGTGAGGTTTTGTAAAAAG
TGCTCTGTGACTTAACACAGAAACGCAATAAACACACACAAAAATAGTTTCATGAGTGATCTTCAGATGCCCTTC
CCAAGTGGTTAGTTGATCAAGAATTTTGGGGGTGGGGTTGCGGAGAAATCAAGTTTAAATTCCTTCTGATTAA
AAAAATATAGTGGAAATACAATTGTCTGCCGTTTTCCCTTCTTAATGTATATATTGTGAGTATTTATTAGATTCTGT
AGGTCATATTACTTATCAACTGAGCCAAATGTCTGTGTGCAATTGTGTTTCCCTTACCTTGTAATTTTGTACA
GCATAAATAAGTAAAAAATCACTGTTTTTCTCACTTTTTTCAAAATCAAGGATTGTAAATATTGTAGATTCTTT
TTCTGTGTGATGTCTTACTGTTTCATAATGCTGTAACTTGTAGAAATATTGTATATTTATTTCTGCTTATTT
AATGTCTTAATTTCTGAAAAGTATTAACATCCCTGTCTCCCACTCCCTGCCGTCCCATGAAGTTAACTCCTGAG
AGTTGTGCGGGGTGACTGGAGAGCTCATTGCAGACCAGTGGTCTCCAGGGTGGCTCTCCACCTTCGGGTCTGTG
GTATTTCCAGTCAAGTGGGTTTCAATTTCTGGGCTTTGCCGCCCTTATGATGAAGTGTGTGTTGATGCCAGTGA
GAAACTCAGTCTGGCAGGCTACAAAATCTACTCCAAGAAATACCCAGCAACCTTCTGTTTGTTCAAAGCAACT

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FIGURE 1647B

AGCTTATCATGCAAGCAAATTTTGCTGACTCCAGGCTTTATCTTTAGGAAAACAAAAAACCAAAGTATTATCAG
CAGGTGGGAAAGATTTTTCTATTGAAAATTTATCCCTGACAACTCAGCGTTTAGAAAAGAAATAAAATGTGCCAC
TTCCAGAGGTGCTGCATTGCAGTTGTTTCAGGGCTAGGGCCAGGCAGGACAAGTGAATGGGTGGGACAGGTGGCTC
CTGCCTAAGGACCACCTCAGGCCACTAACCCCTTGTTGGACAACCTGTGAGTAGCTGGGTTTTCCCCACCTGCTGT
GCAACTTCCTGTGCTTTGAGGTTGGACTAACTTGTCTTCAGGAGCTAATTAACGTACAGCCCTCCCCACGCCCC
ACCCATACGGTTCACATGCTTTGGTCAGCCTGCTTCTTCAGGTCGATGCCCTCCTTCTGATACTCCATCTCCTTCA
GGGGAGGTTGGGGCCCCACTGGACTGGGTGTCAAGATGTGAAAGCTTATGGGAGCTTTAAGGAGACTTCATGGTG
GTTCCATGCAGGTGGTTCTGCCATCCCTGCTGATTTAGCCTGGTGCCTGTGTGTGTCCACTCACGTACACGTGGG
GTGGGGGAAACGTGTCTACAGATGACGCTAAATCAGTTGGGGTCTACTCTAAACAGCATTGTGTGTAAGAAGCAT
CCTCAAGCTCCCAGTTAAGTAACCTTGACTACTTTTTATTGGGAATTTTCAGACTATAGAAGCTCTCTTATGTTTTA
TGTCCAGATTCTGTGACCACTAGTTACTGTATCAGAACTCATCAGGTACCCACTTATAAATAGCACTGATCTGGC
TGTATACTGATCCATCACTAACCTGTTTTCTAGGACCCAGCGTATGTAGCATTGTATTGCAGTTTCCCTGGCTT
ACTTGTGTTTTGCACTGATGAATTTTGACAGGGTAATTGCCACTTTACTTGTGCAATACTGCTGTAAATAACTGC
AGATTTTTAAACAATCTTTTATGTTAATTTTATAAAAATAAACTTTCACTAGTTTTAAACAAAAC

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FIGURE 1648

MAKQPSDVSSECDREGRQLQPAERPPQLRFGAPTSLQTEPQDRSPAPMSCDKSTQTPSPPCQAFNHYLSAMASMR
QAEPADMRPEIWIQAELRRIGDEFNAYYARRVFLNNYQAAEDHPRMVILRLRYIVRLVWRMH

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FIGURE 1649

GTGCAGTTGCGGCTCCAGGGCC**ATGG**CGGAGGAGCAGGGCCGGGAACGGGACTCGGTTCCCAAGCCGTCGGTGCT
GTTCTCCACCCAGACCTGGGCGTGGGCGGCGCTGAGCGGCTGGTGTGGACGCGGCGCTGGCGCTGCAGGCGCG
CGGGTGTAGCGTGAAGATCTGGACAGCGCACTACGACCCGGGCCACTGTTTCGCCGAGAGCCGCGAGCTACCGGT
GCGCTGTGCCGGGACTGGCTGCCGCGAGGCCTGGGCTGGGGCGGCCGCGCGCCGCTGTGCGCCTACGTGCG
CATGGTTTTCTGGCGCTCTACGTGCTGTTCTCGCCGACGAGGAGTTCGACGTGGTAGTGTGCGACACAGGTGTC
TGCTGTATCCAGTGTTTACGGCTGGCTAGACGGCGGAAGAAGATCCTATTTTACTGTCACTTCCCAGATCTGCT
TCTACCAAGAGAGATTCTTTTCTTAAACGACTATACAGGGCCCCAATTGACTGGATAGAGGAATACACCACAGG
CATGGCAGACTGCATCTTAGTCAACAGCCAGTTCACAGCTGCTGTTTTTAAGGAAACATTCAAGTCCCTGTCTCA
CATAGACCTGATGTCTCTATCCATCTCTAAATGTCACCAGCTTTGACTCAGTTGTTCTGAAAAGCTGGATGA
CCTAGTCCCCAAGGGGAAAAAATTCCTGTGCTCTCCATCAACAGATACGAAAGGAAGAAAAATCTGACTTTGGC
ACTGGAAGCCCTAGTACAGCTGCGTGGAAGATTGACATCCCAAGATTGGGAGAGGGTTCATCTGATCGTGGCAGG
TGGTTATGACGAGAGAGTCTTGGAAGATGTGGAACATTATCAGGAATTGAAGAAAATGGTCCAACAGTCCGACCT
TGGCCAGTATGTGACCTTCTTGAGGTCTTTCTCAGACAAACAGAAAATCTCCCTCCTCCACAGCTGCACGTGTGT
GCTTTACACACCAAGCAATGAGCACTTTGGCATTGTCCCTCTGGAAGCCATGTACATGCAGTGCCAGTCATTGC
TGTTAATTCGGGTGGACCCCTGGAGTCCATTGACCACAGTGTACAGGGTTTCTGTGTGAGCCTGACCCGGTGCA
CTTCTCAGAAGCAATAGAAAAGTTCATCCGTGAACCTTCCTTAAAGCCACCATGGGCCTGGCTGGAAGAGCCAG
AGTGAAGGAAAAATTTTCCCTGAAGCATTACAGAACAGCTCTACCGATATGTTACCAAACCTGCTGGTAT**TAA**TC
AGATTGTTTTTAAGATCTCCATTAATGTCATTTTTATGGATTGTAGACCCAGTTTTGAAACCAAAAAAGAACCT
AGAATCTAATGCAGAAGAGATCTTTTAAAAAATAAACTTGAGTCTTGAATGTGAGCCACTTTCCTATATACCACA
CCTCCCTGTCCACTTTTCAGAAAAACCATGTCTTTTATGCTATAATCATTCCAAATTTTGCCAGTGTTAAGTTAC
AAATGTGGTGTCAATCCATGTTTCAGCAGAGTATTTAATTATATTTCTCGGGATTATTGCTCTTCTGTCTATAA
ATTTTGAATGATACTGTGCCTTAATTGGTTTTCATAGTTAAGTGTGTATCATTATCAAAGTTGATTAATTTGGC
TTCATAGTATAATGAGAGCAGGGCTATTGTAGTTCCCAGATTCAATCCACCGAAGTGTTCAGTGTCTCTGTTAG
GGAATTTTGTGTTGCTCTTTGCCTGGATCCATAGCGAGAGTGTCTGTATTTTTTTTAAAGATAATTTGTAT
TTTTGCACACTGAGATATAATAAAAGGTGTTATC

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FIGURE 1650

MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAAALQARGCSVKIWTAHYDPGHCFAESRELPVRCAGDWL
PRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDVVCDQVSACIPVFRLARRRKKILFYCHFPDLLLLTKRDSF
LKRLYRAPIDWIEEYTTGMADCILVNSQFTA AVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPKLDLVPKGKK
FLLLSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTF
RSFSDKQKISLLHSCITCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPDPVHFSEAIEK
FIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTCLLV

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FIGURE 1651A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGTGTCCCTCCCTCAGC
GCCGACACCATGTGATCCAGGTTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGAATCGTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCCTCCACCCACGGCGAGGCGGCCGCGGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGTTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAATCCAGGGACGTCCGAGCGCGCGCCGCCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCGGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCGCTCCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCGGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCACATGGCCTTCCACATCTACTGCTGGACCCG
CCCCTCAGEAGTGTTCACAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCAGGTCCAGGTGAGCGAGTGGGTGTCCATCGGCCCCACGTGGCT
GGCATACACGGCCGAGCAACGACGGAGCGTACTCCCTAGTCTGGCGGGGGGCTATGAGGATGACGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTGCAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTGT
GATCAGAACTACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTGGGGGAAGCCGGTCAGGGTGGTGCGAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTGTGAAATACTGGCCGAGAAGGGGAAGTCCGGG
TTTTCTGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCAGGACGGCAAGGGCAAGTGG
AAGCGGAAGTGGCAGGAGGTGGCCGAGCAGGGCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGAG
CCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CTGGCGTCACTCAAGGACCGCGCGGCGAGCGGCAGCCGTTCCAGTTGTTCTGAGTAAAGTGGAGGAGACGTT
CAGTGTATCTGCTGTGAGGAGCTGGTGTTCGGCCCCATCAGACCGTGTGCCAGCACACGTTGCAAGGACTGC
CTGGACAGATCCTTTGGGCACAGGTGTTAGCTGCCCTGCCGTACGACCTGGGCCGAGCTATGCCATG
CAGGTGAACAGCCTCTGCAGACCGTCTCAACAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAGC
ACTTCTCGACAGGCGTTTTGCTGAAAACGTGTCGGAGGGCTCGTTTCATCGGCACTGATTTTGTCTTAGTGGGCT
TAACCTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAGGTTGTCTTCCTTTTTTTTTATTTTTTCAAA
TCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTGTCTTTGAAA
CATAAAGCCTGCAATTTCTGACAAAACAACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGTGGA
GGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCAGT
CTTCTCTAGGGTTCTGGCCCCAAGGTGAGAGCAAGCATCTTCTGACAGCATTGTGTCATCTAAAGTCCAGTGA
CATGGTTCCTCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGA
AAAGAGGAACATCTCGGGCTAGTTCAAACCTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCTGAG
ATCCGCGTGAAGAGTCTCTGCCACGAGAGCAGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTCTGC
TCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACGAAGTCA
CGTGCAAGTGCCCTTGATTGCTTCCTTTCTTAAAGACGACAGTCTTTGTTGTAGCACTGAATTATTGAAAAT
GTCAACCAGATTCTAGAACTGCGGTATCCAGTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGAGCC
TTATAGATCATTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGTTTTTTTTTAAATTTTTT
TTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAACGTT
AGGGTTTGGTTGTTTTGTTTTGTATTTTTTTCTTTTGAAGGTTTGTTAATTTTTCTAATTTTACCAAGT

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FIGURE 1651B

TTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAACTGGAGCAATGTTATTTT
TAAAGGGTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTGTGTAGGCT
TTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGATTGAAAAAAAAAA
AAA

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FIGURE 1652

MWIVRTMDGRQHTVDSLSRLTKVEELRRKIQLFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTIQLLVRO
SLVLPSTKERDSELSDTDSGCCLGQSESDKSSTHGEAAAETDSRPADEDMWDETELGLYKVNEYVDARDTNMGA
WFEAQVVRVTRKAPSRDEPCSSTSRPALEEDVIYHVKYDDYPENGVVQMNSRDVRRARARTIIKWQDLEVGQVVML
NYPNPNKPERGFWYDAEISRKRETRTARELYANVVLGDDSLNDCRIIFVDEVFKIERPGECSMVDNPMRRKSGP
SCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFHICYCLDPPLSSVPSSEDEWYCPECRNDASEVVLAGE
RLRESKKKAKMASATSSSQRDWGKGMACVGRTECTIVPSNHYGPIPGIPVGTMRFRVQVSESQVHRPHVAGIH
GRSNDGAYSLVLAGGYEDDVHGNFFTYTGSGGRDLSGNKRTAEQSCDQKLNTNRLALNCFAPINDQEGAEAK
DWRSGKPVVRVVRNVKGGKNSKYAPAEGNRYDGIYKVVKYWPEKGKSGFLVWRYLLRRDDDEPGPWTKEGKDRIKK
LGLTMQYPEGYLEALANREREREKENSKEEEEQQEGGFASPRTGKWKWRKSAGGGPSRAGSPRRTSKTKVEPYS
LTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEETFQCICQELVFRPITTVCOHNVCKDCLDR
SFRAQVFSCPACRYDLGRSYAMQVNQPLQTVLNQLFPGYGNGR

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FIGURE 1653

ATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCA
AGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAAGT
GAACGAGTATTTGCAAAACCATTCCTTCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCAT
CCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT
TGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTTTTC
ACTGTGGTGATGACAAAAGTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTA
CATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGGCACATGTGGA
CAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTATAAGT
AGTGTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTACGAT
ATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCATGGAA
GCTTTTCATTTTTACAGCAGCAAATGAAGATTATAACTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTA
ATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGIGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCT
AGTTTCGATAAATCTATTGGAATCTTTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATACAAAGAGAATG
CAACATGTTATCTGTGTAAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATTGCG
CTGTGGAAAGCTAATGCTTCTGAAAAATGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAACCAG
AAATTGAAGGAGAAATTTGAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCTATC
TATAGCCAGATTGAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGC
AAGCCTGGATCTGTGCCACTTGTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAATAATAA

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FIGURE 1654

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGEVVRGICTRFCGTSFFTVDGDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMITWGFDSISSVKFNPIETFLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVS AVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSRSEVYHTKRMQHVICVKTSDSKYIMCGSDEMNI RLWKANASEKLGVLTSREKAARDYNQ
KLKEKFQHYPHIKRIARHRLPKSIYSQIQEQRIMKEARRRKEVNR IKHSPGSPVPLVSEKKKHVVAVVK

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FIGURE 1655

GGCACGAGGGTGGCGTGGAGTGGCGTGGCGTGGCGGGTCTCGCGGCGCGGGCGCGCACCCGGAGCTGTGGACGG
AGAGTGCCTCCCTCTGGCCTCAGTTTCCTCATGTTGTAGTAGCGGAGCATGGCCCCGACCGGGCCCCGAGACCG
CCCCGTGCAACCTCACCGCCAGCCTGGGGGCCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGGATTCTCCCTG
CCCCCGGCCCTGGTGGCTGACTGACCCTCCTGTTCCAGAGCCCCCAGCGCAGGCCGGGATGTTTCGTCTGGTGG
AAATGGTGGACACCGTCCGGATCCCCCTTGGCAGTTTGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGA
ACAAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTGCATTGTCTGTTTGATATCACAAACTGGAGG
ATGCCTATGTATTCCTGGGGATGGCGCATCACACACCAAAGTCTCTTAGGCTTCTTCGATGACATTCTCATCC
CCCCAGAGTCACTGCAGCAGCCAGCCAAGTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGG
AAGGAGCACACGACCTCTACATGGACACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACA
CGTCCCCACAGGGCCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGCTGCCAAAGAAGGAGGCTCCGTACA
CGCTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCCTTCTCTCCTGGTGGACCAGCAACTAGCCCTGGGGCTGGA
CAGTGGACCCTACCAGCCTGCGGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAG
GAGATAGTGTCTCGAGCTGGACAGTGAGGCAAGGCCAGGAGTGCCCACCAGCTTGCCCCGCTCCTCCACCATCTA
GGCCCTGCTCCTCCTTCACTGCAGTGATGGATCCATCTGTGGCTGTGGCTGTTGGGCCTCCACTGACCTTGACTG
AAAAGACCTTCTGGACCTGGACTTGACAACAAACGGCACAGACACCAATCACTCACAGAACAGTCACTGGTT
TTGGATTCTTGTTCCTTGCAAGAACAAAAGGTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGG
AGAAAAACTTTAGATGGGAGTCTTGTTCATCAAAAATAAATACAGTTGCATGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1656

MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYNVGLCICLFDITKLEDAYVFPGDGASHTKVSLGFF
DDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDLYMDTGEEIRFRVVDSEFVDTSPGSSADATTSSSEELPK
KEAPYTLVGSISEPGLGLLSWWTSN

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FIGURE 1657

GCGGCGCAGCGCGCGGCGCAGCGCGCGGCGTCAGTCTTGGCTGGCAGACCTGTACTCCGTACTCCGTACTTCGTA
GTCGCAGCGGCGCGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCCACGTGTTGCCTGACCATTCCCT
GAGCCCAGGTGGGAGCCGTGGCTGAGGTGACGGTCTCAAAGTGGAAGAGCTTACTGTACAGCAACTCCTTTGCA
AGATGCCCCGGCCAGGAATAGTTGCTGAACACCCAGGCCTGCTGAGGTCCCTCCTTGAGTCTCATGTTCAAGCA
GTCTTTGTCCATGAAACTGGGAGGCGACCGTGTTAGCTGCCAGTTCCTGACAGCCACCTCTCACCAGTGGCTTCA
CTCTGTGTCCCTGACCCAGCACATGGCACAAGAGTGCCTGCCATCCGTCAGTGTTTCTACAGCAGCAATCCCTAG
ATGCTGGAGCTTAGAGGGGACCTGACCTGAGAGAAGATACTTCAGTGGCTGCCAGGCTGTTCCCTTGGAACCTGTG
CAGGGATGAGGCCTGCCCTGTGTTAATACACCTAGTGAGGAGTGGAGCTGAATTTGAATGCAAGCCTTGGCACCTT
AATTGAGCAAGTTTGAACCTCGCTTGTGCCCCTTCTGGAAGGAGTCAGGAATTTCCAGTTCTGGGCCTGGGCTG
TGGGTCTGGCAGACAGACCTCTGGCCCTAGGTTTGGGTGCCAGGTTCTCTGCTTCCAGAATGAGAAGCTTTGCTG
TGCACCAGGACCTGGGCCCTTTTGGTATCTCCTGAATGACACACAAGGGATATTTAATAAATATGCATTTAAATA
TGTG

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FIGURE 1658

MKLGGDRVSCQFLTATSHQWLHSVSLTQHMAQECLPSVSVSTAAIPRCWS.

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FIGURE 1659

CGCTGTAATTTTCACAATATTTTAATTCTGTTCTGAGATCTACAAATATCTCTACATAACACCAAAGCCAGTGAT
TTAATAAATAAGAGGAATGTATATATCGCTTTGCAAAAAAATGCCTGATACATTTATCTCTATATAAGATATTTG
TAGAATCAGTTTCCCAAGGCTCACGAACTAAAGTGCACACACACACTTTCCAATACCAGTCGGCATTACCCG
CCCTTTGGTTTTCTTTTGGTTTTGATTTTTCAGCCCCCATATCATTCTGGTAACAGAGCACAGCAATAGAATTTCTG
GGAAGCAGACCTTGTGAATCGTGCCTGTGTCTTAATTACAAAAGGGTAAGTGAATGCCGTTGAAAGGTGTTTCAT
ACACTTACCCAGAAATGAGAGCCTGTCTCATGCAGGAGTCGGGAGGCAGCGATGTCAGGGAACGGGACTATGT
CTTTATGACTGTGATGGTGGTAACCAAGTGGGGTGGTCCCTCTGGGGAGCTGAGTAAGAACGCAAGGTTTGGG
TCAGTGATTAGGAAGACTATAATATGACTTTGTGCAIGCCCGGAGGGCTGCCCTGTAGAGAGGATGTGAGCAGC
TTAGTCGCTCATCTGGCCCTGTGATTGAGGCTTATGGAGCGTTAAGAATAACAGCTGTCAAATGGCCTAGACATG
GTTAATGCAATTTGTTGCTAGTGGAAATCCTGAATTGCTTCCTTTCTGTGATCACTGCTACTTCTTAAGATGCTT
TTGATGAATGTCATCTGCCTTACAAGTTGACACCTGATAACTTCTCCCTGATGGGTTTCCGAACCTGGCTGACTTA
ACCAAAAAGCCAGCTCTTGCCATCTATCTTGCAATTAAGGAATTCCTGAGGCTCCTAAGGGGTCAGCTGCCCA
CTCCTGACTTTTTTATTTTAAAGGTCTATACCTTCTGCAACATTTTTGTTTTATGGCCATTTGAATAGTTGGACT
TTGACTCCTCACTTGTGAATAATAGGAATATATTTTGAGAATCTAACATAATACCCTTAAATTCATACTGGAC
AACCATCAGTGTGATGTATAGTATCTGGTGTAAACAAATTTTATTCAGCATATTAAATTATTCTGTGTTTTGCTT
TTCCTTGATATGTAGGAGGTGCACCAGTACCAGTTTTTCTCTGTGGTGGCTTAAAACGCTGATTGCCATTTGCA
TTGTCTACTGAAAAGCTGTGGCAGCGAGTGGTATTATTGACCATGTGTTCTCATGTCTTTTTGCAGATTTAAAGG
TTTTATTGTAGTGTCCATTTAATATCTGCATGTGTGTTAATCTCTGAATACCATGTAATTAACTGATTAACTT
GTGATGGTGATGGTGATTAGCACACACTAAAAACCAATGAAGCAATTGTCTCCCTCTCTTAACCTGGAAATCAC
ACTTGTGAGGTATGGTATCCATTATCAACAGTGGATTGATTGACTTCATATTTTGTGTATCTGGTTATAAAT
TTTGATAGCATTTAATTTGGCACTTAATATAAATCCATTTGATTTGAATAGTGTGTGTGTGTACATGGTGTGTG
TGTGTGTGCACTTTAGTTTCGTGAGCCTTGGGAACTGATTCTACAAATATCTTATATAGAGATAAATGTATCAG
GCATTTTTTTGCAAAGCGATATATACATTCCCTCTATTTATTAAATCACTGGCTTTGGTGTATGTAGAGATATT
TGTAGATCTCAGAACAGAAATTAATAATTGTGAAAATTACAGCTTAATAAATGTTTATTGTAATTTTGTGTATG
GACTTTTAAATATATCTCATCACTTCTAACCAAA

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FIGURE 1660

MFIVILLYGLLKYISSLLT

1834/2682
FIGURE 1661

GCGCGCTGTCTGGCTCGGGAGATGGACGGCCGCCGTGTTTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCT
GGGTGTCCGCCCAGTGCCCGAGGACGCAGGCTTTGGCACCGAAGCCCGGCATCAGAGGCAACCCCGCGGCTCCTG
CCAACGGTCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGCTGCTGCCAAAAAACCTCAGTCGGGAGGAGCTGGT
TGATGCGCTGCGGGCAGCCGTGGTGGACCGGAAAGGACCTCTAGTGACGTTGAACAAGCCACAGGGTCTACCAGT
GACAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGCCAGTCCCTAGGGCTCAGGGAGCA
GGAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTA CTCTCCAGCTGTCCCCAGACAGC
TAGTCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCACAGCCACCTACTGTGCTGTCACTGA
TGGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAACACATTGATGGGGTCAATCTCAC
AGTTCCAGTGAAGGCCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAGACTCTCAGTCACITTCGTGTGGT
AGCCACAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTTCTCCAGTCAACTACAGGTGCACAT
GGTACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCCGTGTGGGCACTGTCTCTGGGCCAGCGATT
TCTGCTGCCAGCTGAGAACAACAAGCCCCAAAGACAGGTCTTGATGAAGCCCTCCTCAGACGCCTCCACCTGAC
CCCCCTCCAGGCTGCCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTTCTCCAGGCACCAGGGCCAGGGA
CACCCCTGTTGAGCTCCTGGCACCCTGCCCCCTTATTTCTCCAGGACCCTACAGTGCCTGGGGCTCCGCTTACA
ATAGTCTCCCTCTGTTCCCTGACCCCTCACACACACTGGAAAGTGAGGGTGGGGCTCTGCAGTCAGACAAACC
TAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGTAACCTTTACCTCTCTGGACTTGTG
ATAATAAAAGTTCTACCTCAAAAAAAAAA

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FIGURE 1662

RAVLAREMDGRRVLGRFWSGWRRGLGVRPVPEDAGFGTEARHQRPQPRGSCQPSGLGDQPPFAGLLPKNLSREELV
DALRAAVVDRKGPLVTLNKPQGLPVTGKPGELTFSVLPELSQSLGLREQELQVVRASGKESGLVLLSSCPQTA
SRLQKYFTHARRAQRPTATYCAVTDGIPAASEGKIQAALKLEHIDGVNLTVPVKAPSRKDILEGVKKTLSHFVRV
ATGSGCALVQLQPLTVFSSQLQVHMLQLCPVLGDHMY SARVGTVLGQRFLLPAENNKPRQVLDEALLRLHLT
PSQAAQLPLHLHLHRLLLPGTRARDTPVELLAPLPYFSRTLQCLGLRLQ

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FIGURE 1663

GGCACGAGGGTGGTGAGGCCTACAGAAGCGGCCTTCAGCTGGACCTTGGTCTCCCCGCCGGACTTCGAGGGTGTC
ATCGCCGCCCTGTTGGGGGTGAGCGCCGCGGGCTGCAGCATGCCTCACAGGAAGAAAAAGCCCTTTATAGAGA
AGAAGAAAGCTGTGTCTTTTCACTTGGTCCACCGGAGCCAACGAGATCCTTTAGCAGCAGATGAGAGTGCACCCC
AGAGGGTTCTATTGCCACACAAAAATAGACAATGAAGAAAGGCGAGCAGAACAGAGGAAGTATGGAGTGTCT
TTGATGACGACTATGACTACCTGCAGCACCTGAAGGAACCATCTGGGCCTTCAGAGCTTATTCCTCAAGTACCT
TCAGTGACACACAACAGGAGAGAGGAGAAAGAAGAAACGCTAGTAATTCCAAGCACTGGAATTAAGTTGCCTTCAT
CAGTGTGTTGCTTCAGAGTTTGAGGAAGATGTTGGATTGTTAAATAAAGCAGCTCCAGTTTCAGGACCTCGACTGG
ATTTTGATCCTGACATTGTTGCAGCTCTTGATGATGATTTTGACTTTGATGATCCAGATAATCTGCTTGAGGATG
ACTTTATTCTTCAGGCCAATAAGGCAACAGGAGAGGAAGAGGGAATGGATATACAGAAATCTGAGAATGAAGATG
ACAGCGAGTGGGAAGATGTGGATGATGAGAAGGGAGATAGCAATGATGACTATGACTCTGCAGGCCTATTGTCAG
ATGAAGACTGTATGTCTGTGCCCGGAAAACTCAAGAGCTATAGCAGATCACTTGTTCTGGAGTGAGGAAACAA
AGAGTCGCTTCACGGAGTATTGATGACTTCCTCAGTCATGAGGAGAAATGAACAGCTGACCTACATGATGAGA
GGTTTGAGAAGTTTTATGAGCAATATGATGATGATGAAATTGGAGCTCTGGATAATGCAGAATTGGAAGTTCTA
TTCAAGTGGACAGCAATCGCTTACAGGAAGTTTTGAATGACTACTATAAAGAGAAGGCAGAGAATTGTGTAAT
TGAATACCCCTTGAACCCCTTGGAGGATCAAGACCTGCCAATGAATGAGCTTGATGAGTCTGAGGAGGAAGAAATGA
TTACTGTAGTCCTTGAAGAAGCCAAAGAGAAGTGGGATTGTGAATCTATTTGTAGTACATACTCAAATTTATATA
ACCATCCACAGCTTATCAAGTATCAACCAAGCCCAACAAATTCGAATATCTTCTAAAACAGGAATACCTCTCA
ATGTCTTACCAAAGAAAGGACTCACAGCAAAGCAAACCTGAAAGAATACAGATGATTAATGGCAGTGATCTTCCTA
AAGTATCAACTCAGCCACGTTCTAAAAATGAAAGCAAAGAAGATAAAAGAGCAAGAAAGCAAGCTATAAAAGAAG
AGCGCAAGGAACGAAGAGTGGAGAAGAAAGCTAACAAATTAGCATTAACTGGAGAAAAGAAGGCAAGAAAAAG
AGCTGCTGAACCTGAAGAAGAATGTTGAGGGTCTAAAGCTATAGACAGTGGAGCATAACAGGGCAAGGCACCTTTAT
TAGGGGCTCCTCATCTTTGGTTATTGACTAGAACTTCAGAAAGACAAAACCTGTTGCCATTTTTACTGGCAGAT
AAGAGGAAAAATACAATATTTGTATTATTTTATACTAGTAAGTGTCCCCTGCCAACCATCTTGTAATATTGTAA
TACTTTAATTTTTAATATTATAAGCTTACATTGCTCTGAAGTAAATGACTTCATGAATGTGAAATGTTTGATAA
ATTAAAGGAAATATCTTCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1664

MPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGVFFDDDDYDYLQHLKEP
SGPSELIPSSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEEDVGLLNKAAPVSGPRLDFDPDIVAALDDDF
DFDDPDNLLEDDFILQANKATGEEEGMDIQSENEDDSEWEDVDDEKGDSDDDYDSAGLLSDEDCMSVPGKTHRA
IADHLFWSEETKSRFTEYSMTSSVMRRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEV LND
YYKEKAENCVKLNTLEPLEDQDLPMNELDESEEEEMITVVLEEAAKEKWDCE SICSTYSNLYNHPQLIKYQPKPKQ
IRISSKTGIPLNVLPKKGLTAKQTERIQMINGS DLPKVSTQPRSKNESKEDKRARKQAIKEERKERRVEKKANKL
AFKLEKRRQEKELLNLKKNVEGLKL

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FIGURE 1665

TGCTGCTGACTATTGTTGGTGAAATATTTTCACCAACTAAAGGAAATAGACATGAAAAACAATGACAATATTCAA
TCACAGCAGTAAGATGGCCTTTGTGTTGCAATCCCTTCTACCCCATCAGACAGCTCCTATCTAACATTCTCTAT
ACAGTTCATTTCTCTACAAGCATTCTTGATTCTTAGATAACTCCAATTTTGCTACCTTTATCTTAGACATTAA
CACTATAGCCCAAAGCATAGTTACTTTGCTAAATCAGAAAGCAACTGAGTTCTTTGTTTTCTCCTCAAATAGAAT
GGGGAACGTACACAACATTCTCTTAAGTTCTAACAGGAATACCATTGTGGTGATAGAACTCAGGGCTGCTAAGGC
AAATACTCTAGACCCATAGTTCTTTTTAGTTAGATGTATTGAAACAGACAAAAATATTAACATCAGAAAAAGCTC
TTGCCAATTAGAGGATCTTCTTAATCTTCAGCAATTAAGTTTGGGGTTTGAGCGGGGCAGGTCAATTGTTACAACA
GAAGTAAATTTGGCATCTATAGAAATCAATTATGATTTTTGAAAGATTTATCTAAATATATCTATATAGCATCTC
TTTAATGTTAGTCATTTATTAGAAAGATCCTTTATCCTGATTTGCTTAAACCTTTCAATAAATTGCACTTTAAAG
GATTATAAATAATCCATTTAAAAATTCAAGTACACACATCAGTGTTGGTTACTATGCAGAGAATGTCATTGTGTA
TAGTTTCATGTAATCTGTTATGTCAGCTGTATTTTTATTAAATCATGTCAAGAAAA

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FIGURE 1666

MQRMSLCIVSCNLLCQLYFLKSCQE

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FIGURE 1667

CACAATAATTTAAACAGCTTTCTTATTTCTTAACCTCTCTGGGTATTTTGTGTGCTACTGTATCTTGTGAATGAA
TCTCAAGAGGAAGGATGAAGCTTTTCCAAAATCACATGCCTTCATCTCATTTTACAGAAAAATTTGTGCCTAATG
TTAACCAGGAAATGGGGAGCGGCAGGGCCAGTGGGTTTTCATGGTGAAGTGAAGGTTGCATCTTGGACAGGTT
GCATGTGGAAGGGACAGCAGGGTTCCCAAGGAAGCTTGCACGGTCATGGGTAGAGCCATCCCTTCTTCATCCAT
AGTGAATATGGCTGGAAATAGCGGGTAGTCTTGGATTGACCTCCCTCCCATGGAAGTGTCTCTCCAGCTCGCT
CCTGGAAAACTGCTTTCTCCCCAAAGTGTGTCTGAGCAGCAGATTAAAGCATGAAGTTGGTTTTGTGGGGCTAC
AGTATGGACTTTGGGAAGATGGTGCCATCTGTATTTCTGATTCTACCGTCCCTCTGTCTGTCTTTGGAAGTATCC
TTTCACTTGTTTGGGAGACTGAGAATGATTTTCTGCAAACAGTGAGCCAGACCATGCTGGTCTCAAGCGGCAGAG
CAGTTATTAACAGAATCACAGTCTTCTGGAGCTGTGTCTCAGTCCCTGTGTCTCTCAGGGCCTTTGCTTGGTCA
GGGGCCCCACTTCTTATCCACCTTCCCTCTACCTCACCGAGGCTGCTAGGCCAGGTGTATTGTGATTATTGTA
TGTACCTGGGAGGCCATGTCTCCCGGGGAGGCTCAGGACCTCATTGGGCTGGAATCCACAGGGATCTCTCATTG
GGTCTCTTTGGGCCTTTGGAGAGGGGAGTGCAGGGCACACCTGGGCGAACACCTGTGCCATCCTGTAAGTCCCTT
GTGTGACTCTTCATCCAAGTCAACAGGGGCATGTAGGGGAAGAGCCTCAGGGCCCATCAGGAGTCAGACCCTGAC
CAGGAAGTCAGAACTGAATCAACTTTTCAATAAACACACAGGCTGGCCCCAAACAAAGCAGCAGGCTTTTGGGAA
CATCTGCCTTTTTCAGTCTCTTCTGAATTCGTTTATGTGGACACCCCATGTCCCGCACCACTTGCCTCCAGCA
ATGTTTGTGCTTGCCAATATTTGAATAGATGCTGATAAATTTGATTCTCTGGCTTATTGTGGCATTGATGATAT
GTCTTTCCCTTTTCAGTTTCCATGTACTAGAGCGACTGTCTAGTGTGGTTGGCAGTGACCTGTGTTTTTCATGCAT
GTTTTGTTTCAGAATAACTGGGAGATGAAACAGGAAGCTCTATGACACACTTGATCGAATATGACAGACACCGA
AAATCACGACTCAGCCCCCTCCAGCACCTCTACCTGTGCCCCGCGATCACAGCCGGAATGCAGCTGAAAGATT
CCTGGGGCCTGGTTCCAACCGCCCACTGTGGACTCTGAGGCCTCTGCATTTGCGGGTGGTCTGCCTGTGATATTT
TGGTCATGGGCTGGTCTGGTCGGTTTCCATTGTCTGGCCAGTCTCTATGTGTCTTAATCCCTTGTCCTTCATT
AAAAGCAAACTAAAGAAAAAAAAAAAAAAAAA

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FIGURE 1668

MTDTENHDSAPSSSTSTCCPPIITAGMQLKDSLGPGSNRPLWTLRPLHLRVVCL

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FIGURE 1669

GTGTGTTGCAATAAAAAGAATTCTTTACTCTGTTTGGGATTCTCGCCATCAAGGTTCAAAATCCCTTTATATAAC
TCCCAAGAGGAGAAATTTATTAAGTGTGTGCTTTCTGGACAGCTTATTCTTTACTCTGCATAGAACATTTAGGTT
TTAAAACTTAAATGTATACTGACAATTGATACATAAATTATGAAGTAAAGTTGAATTCTTCCCTTCCCTTCCCTT
CCAGACAACCTTTTAAACATATTTAATGAGGGGAAAAGGTACTGGCTGGGAGAAGTTAACTGAGTTTATCATCTT
TACAGAATGCTAATGCTGTCTCAACTGATTATTTTATATACATATATATGATACATGAACTCTGGGATCAGAT
GCTTTTAGAAGCCATCATGCAAGCCAGTCATTGATGTCACTGCTACACAACACTGCTAACTTGACTGTAGCTATG
TAATAACATTAGATCCCTAATTGTAATTATATTGGGTTTGACAGAACACTTTAATCTTCCCTTCCCAATGTG
AAGTGAGGAATCAGGAGTCAAACGTAGAATAAAATTTGACTTCAGTCTAGCGTTTCCCTTGGTGTTTTAGGTT
GCTTTGGTAAGTTTAGGTTTGCTATATTTCTGATTGCTTAGAATTTTGTTTAGCCCTTTAAAAATCAGATCATAA
ATATGAATTCATACTTCTAAGGAATTTTCTTGCTATAAGCTGGAGTTTAGGTGATGTATAGGTTTCAAGTTGAGACA
TTTTTGAACAGGCAAAATCCTTAGTTAACAATAAGATTTTAAACAGTTGAAGATAGTGTATGATGATTTTATCTTT
TTTAGCAAGTAATGCTAAGAACCCTGGCCTGAGCTACTACTCTTCACTATACATTATTAGGATTGCATAGACTT
ACTAGAGGAACAGTTTCAAGTTTGTATGCTAATCAGTGTGTGCTTAAAGTTGCTCTTGTGCTTTTAAAAAGT
TTTGATATATCTTCTAGTTTAAAAATGCTTATTAAGGAATTCATTTTATAATTGCAGTGGGAAAGTAATGGTCA
AGTAACACTAGGTAGACTATCATGCCTGTTTAGCCAGAGAATTTGGGGGAGAGAGAATAGATAAAAAATGGCAC
CCAGAAAAATGTTAAAAATCTTTAGTCAAGACTAGAATTAATACAATGTCTACACTTGTATGGCAGAAATAACCT
TATAAAGTGTTTAAGGAATTCAGAGAAGGAATGTACCAATAAGCAACAGGGAGAAAAATAGGTAAGAAGTAAG
ATACGAACGAGAAACCTGATTTATTGCTCATCTTCCCTTGCCTCCCTAATGGCAAGCAAACTCTGAACATCTG
AAAAGGATGTAGTTCTGGACAAATCCTGACTACCCAGAGGAACTCACTGTGAGATTGCTGTTGATTTGAAGGGT
GCTTTCACTAAGGTTATATTTTAAAGTAGAATAACACATGCTGAGTGTAAGTGGCTTTGGATTGGTCAGCTGCA
GTAGTACAAAAACAGCATAGAATTTGAGAAAACTAAACTGCTATGAGATAGCTATGAGAAAACTAAACTGCTA
TGAGATAGAAATGATGTAAATTTATGTGGAAGTTTCCCTCATATACTCACATACAGCCTTTGAAGGGCTCTGG
CTCTGACCGGTTGATGGCCTTGAGCGAGATGAAATCATGAAATTGAGTCAAATCAATTTGACATTGAAATGACAA
GAGGAACTCTTAAATACATAAAAAACAAGCTCTCATTTGCCTAGGATAGATACTGTCTTAAAAATAAAGACTGAA
CCTAGATGTTCTGAGCACTAGCAACAAGGTATTTTAAACAAGTTTAAAGGAATTCCTGAAAAAGTTATAAAATTA
TTCTAGGAAACATAACCATAATAGTGTTTTAAAGGACTTTCACCTGGGGATTTTATATTATGAACAGAGTGTAT
TCTGTATTTAAATGTCTCATTTGTGGGAATTGGATGACATGTTTTTTGATAAATTTATTCACAATATAAATTGA
CTTTTTATTTCTAGGACCATGTGAATAATGGGTCCATTGCACAAATACAAATATTTTAAATAGCTTCTTAGGCAGT
GGTGTAGACATCTTGATATAAATAATTGTAGATCTTGTATATTTGATTTTTTAAAAAACTAGAATAAACAGAGAG
GCATAAACATATCTTAGAGTCCAAGTGGTAGTGTTTAGCATTGGATATAATAAATGGATGTTTTACAAAGTGTTT
CCATAATCTCTTCCCTATACATAAATGTCTGTTTTCAAAAGTGGATGG

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FIGURE 1670

VVAIKRIHLLCLGFSPSRFKIPLYNSQEEKFIKCVLSGQLILYSA

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FIGURE 1671

TGGATTTTAAAAGTATTGAAGAACAACAAAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTA
AAGGTCTAAAGGTGGAGATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGC
CCGCCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCCAGTATTTCA
AGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGTCGGACAGGAGCAGAAACACACCT
ACCTTCCCTGGAGGTCTGTAACATTGTGGCAGGACAAAGATGTATTAATAAATTAAACGGACAATCAGACCTCAA
CCATGATCAGAGCAACTGCTAGGTGGCGCCCCGATCGGCAAGAAGAGATTAGCAAATTGATGCGAAGTGCAAGTT
TCAACACAGATCCATACGTCCGTGAATTTGGAATCATGGTCAAGAGATGAGATGACAGACGTGACTGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGCGTCTGGGACATGC
GGAACAAGCAGTTCACACAGGCATCGAGATCAAGGTGTGGGCCATTGCGTGCTTCGCCCCCAGCGCCAGTGCA
CGGAAGTCCATCTGAAGTCCTTCACAGAGCAGCTCAGAAAGATCTCGAGAGACGCTGGCATGCCATCCAGGGCC
AGCCGTGCTTTCGAAATACGCGCAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATG
CGGGCCTGACGTGGTGGTGGTTCCTGCCCCGCAAGACGCCCGTGTACGCCGAGGTCAAGCGCTGGGAGACA
CGGTGCTGGGGATGGCCACGCAGTGCCTGCAGATGAAGAAGTGCAGAGGACCACGCCACAGCCCTGTCCAACC
TCTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCTGCTGCCCCAGGGCAGGCCCGCTGTTCC
AGCAGCCCGTCTCTTTCTGGGAGCAGACGTCACTACCCCCCGCGGGGATGGGAAGAAGCCCTCCATTGCCG
CCGTGGTGGGCAGCATGGACGCCACCCCAATCGCTACTGCGCCACCGTGCCTGCAGCAGCACCAGGAGGAGA
TCATACAAGACCTGGCCGCCATGTGCCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGCCCACCC
GCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCACCACGAGTTGCTGGCCATCC
GTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGGATCACCTTTCATCGTGTGTCAGAAGAGGCACCACA
CCCGGCTCTTCTGCACTGACAAGAACGAGCGGGTTGGGAAAAGTGGAAACATTCCAGCAGGCACGACTGTGGACA
CGAAAATCACCCACCCACCGAGTTCGACTTCTACCTGTGTAGTACGCTGGCATCCAGGGGACAAGCAGGCCTT
CGCACTATCACGTCTCTGGGACGACAATCGTTTCTCTGATGAGCTGCAGATCTTAACCTACCAGCTGTGTC
ACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCAGCGCCAGCATACTACGCTCACCTGGTGGCCTTCCGGG
CCAGGTACCACCTGGTGGATAAGGAACATGACAGTGTGAAGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAG
ACCACCAAGCACTGGCCAAGGCGGTCCAGGTTACCAAGACACTCTGCGCACCATGTACTTTGCTTGACATGTTT
TAGTGTTTAGCGATTGTGTACCGAGTGGGATTACGAGACCAGCTACACTCAGACCAACAGATGGCCAGCCCTTC
CGTGACAGCCAGCATCGAATGAGACGTCATTGATTTTATTAGATTCTCCGTTTTCCAGAATGCCTTCCGTCCC
AGATTTCAAACCTGGATTTTGAAGTGCAGACCTGTATGAGAACCCTAATGTCATAGGAAATATGGTTTGCTAAAT
CTATAAGCTGCTTATTAACAGAGTCCCGTGTGCTCTAAATCTCCTAAACAGTCTATGAAGTCAAGGCTT
TAAACATTTTTAATTTATTTGGTCATTCAATTTACTTGTTTTTAATACATGATTCTCTATGAAATTGATGGGCT
CAAAC TAGCTGTGAATCTTCTGAGAGTGAAAGCAACACAAAACACAAGTGTGGTTTTAAAGCCTTGAACATTCTG
ATGTTGTCACTAAAGTTGATTTCCAGGCGATGCTCGTGTGCCCTGGCGTGGCTCACCCAAGTTCCTCGACTGAG
GGCCGGTGGCCATGCAGAGGCGTCCGAGGTGCCGTGTTCTGCCAGCACCGCCCTTACCCGGCCTGAACCTAAGG
AGCAGTGGCAGAAGGTGGGCCCCGTGTGTTTACAGCATTTCCAGGTCCAGAGAGGTGGCAGACAAGTGCCATTT
TAATAAAAAATGTATTTAAAAAAGAAAAAGACAATATACTGACAGTCTAATCATCAGATTTGTCCTATAGGAC
TGTGACATTTATTTCCAAAGTTTTTAAAGAATACGGGTCTGTGGTGATAAATACAGTACAATCCTTTTTCACTG
TTATGTCTTTAATGTAAGAGAAGATATATATCTGTTTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1672

MRKRYRVCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEV CNIVAG
QRCIKKLTDNQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRN
KAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTQLRKISR DAGMPIQGQPCFCKYAQGAD
SVEPMFRHLKNTYAGLQLVVILPGKTPVYAEVKRVGDTV LGMATQCVQMKNVQRTTPQTL SNLCLKINVKLGGV
NNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEI IQDLAAMVREL
LIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERV
GKSGNIPAGTTVDTKITHPTEFDYLC SHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSI
PAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA

[illegible]

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FIGURE 1674

MILGRCDLFFIFSKCISFQIKLSIETTEKKKKS

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FIGURE 1675

GCACGAGGGCTACGGCCCTGGAACGGGGCCATGGAGAAGCTGCGGCGAGTCCTGAGCGGCCAGGACGACGAGGAG
CAGGGCCTGACTGCGCAGGTCCTGGATGCCTCATCCCTTAGTTTCAACACCAGATTGAAATGGTTTGCCATCTGC
TTCGTATGTGGCGTTTTCTTTCTATTCTTGGAAGCTGGATTGCTGTGGCTTCCGGGCGGCATAAAGCTTTTTGCA
GTGTTTTATACCCTCGGCAATCTTGCTGCGTTAGCCAGTACATGCTTTTTAATGGGACCTGTGAAGCAACTGAAG
AAAATGTTTGAAGCAACAAGATTGCTTGCAACAATTGTTATGCTTTTGTGTTTCATATTTACCCTGTGTGCTGCT
CTTTGGTGGCATAAGAAGGGACTGGCTGTGTTATTCTGCATATTGCAGTTCTTGTCATGACCTGGTATAGCCTG
TCATACATCCCATATGCAAGGGATGCAGTTATTAAATGCTGTTCTTCTCTCCTAAGTTGAAAAATCAGAACTTGT
GGAAAAGAGCACTTGAATGTTGGTACTCTATGTTTGGTGAAGTTTGCTTTTCCCCATAAAACACTCCAGGAACAA
CTGACGTGACAGTTGAAGACCGTTTTGTACTAAGTCTCATTTTGTATACTGGTAAAAACTACATGCTTGATTAA
CCATTAAATGCTTGTAACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1676

MEKLRRVLSGQDDEEQGLTAQVLDASSLSFNTRLKWFAICFVCGVFFSILGTGLLWLPGGIKLFAVFYTLGNLAA
LASTCFLMGPVKQLKKMFEATRLLATIVMLLCFIFTLCAALWWHKKGLAVLFCILQFLSMTWYSLSYIPYARDAV
IKCCSSLLS

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FIGURE 1677

TTCCGGCCTTGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGACAC
TCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAGAGATTCCTTGAGAAGAGAGAACCGAAACTCAATGA
AAATATTAAAAATGCCATGCTGATTAAAGGGGGAAATGCAATGCAACAGTGACAAAAGTACTTAAAGATGTGTA
TGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCACT
GGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTTCATGTTTGGCTCCCATAATAAGAAGCGGCCAAATAATCT
AGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAA
AGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTTCGATGTAAC
AGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTGGC
TGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTGGAAGCTATAAGTTGCTGTTGAA
GAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGGAC
ACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAAATGCCAAAAGCTCTCAAGCCAAAAAAAAAAAAAAAA
A

REPLACEMENT SHEET

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FIGURE 1678

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIEEEMGPSLDLVL
RRTHLASDDLYKLSMKMPKALKPKKKKK

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FIGURE 1679A

TGAGTTTCAGTTTATGTACTTAAATATGACTGTCAATTTTCCAATCATTTTTTTTTTCTAAAAACACTACAAAAT
TTGTTTCAGCCCAATGTGACACCCCTTGGCCTTCACATAGTGCAAATGAATTATGTATGTGTTTACCTCCATT
TTCTTCCTATTGTCCCTTCCCATCTATGAGTAGCATAGTGATTGCTTGACCGTGTCAGCTTGCTTATGTCAAAA
GAATCTTAATTATACATAAATTGTAATAATGTGTTAGTCCATGAAAATATTTCTCAGTTGGTTATCACTGCAACAG
GAACATCTCTACAACCTGAAACAGAATTTGATGTGAGTACAGTATCAGATGATAGTTGTGTTTATGACATTAGCT
ACCTAAGTCATGATATCCCTTGACACCAAGATTATCACAGGTGGGGATAGCCATTGAATACATTGAGAGGGGAGC
CCACATCATCCCCAAAAATGCTTATTATTGTAGAGTTTATCAGAATAAAAAATAGCAAACCTCTAGAAATAGTGTT
GGGAATAGTCCTTGAGTGGGTTTGGGAACGTAGTTTGAGGTAATTATGATATATCCAGCCCAGCAGACGCTCAT
TAACATGTCAGGTGCTGTGTTCTGTGCTAGGTACTAAGACTATAAAGATGAATTAGACACAGCTTTGCCCCATAA
GGAGTTGCCAGGTAAAGGGTTAGGGGTTAATGTAGTGTAGAGCGGTGAGTATGAGCAAATGTATGGGGGTGGGGCG
GGGCAACTGTACAGATGAACAATCTGGAATATTAAATCAACTCACAGAGTGGCAACAAACAATACTGGAGAGCT
GGGCATGAATCCTGGAAAGCCTTGTATGGCCCTGCAAGGGAAGCCATGTTCTGAAAGCTCCTATGAGGGGACTG
ACTGACTCTAGATAAGTAGATTGAAAGAATTAGAGGTAAAGTCAGTGCAGCAGCACTAATCACAATTAATAATAA
TGCTTTAATTTTTAAAAAGCGGAAAAACATGAAAGGACACTTCGCAAGCTTCTCAAAACTTCTCTGTGATTTGGAG
GGCTATTTTGGAGCAGAGTCTAGACGAAAACCTGGATCTGACTGGCTCCAGAGTAAAGATCTGAGAAATGGAACCCA
GCAATTAGATATTACAAGAGCCTGTTATCTGTCTATTTTATTGTTGTTTAAATATTACAAAAATGGT
TATGCTTTTTTAATTCAAAAATTTGACGTTTCAGCATGATGATACATTCTTGCCCTTTTTCCCCCTTCCATATAGCA
TTTTCCACCCAGCAAGTCAACTCTTTTTCTCTCATGGTTCTAATCCTTCAACACCTGCTGCAACTCCTGTTTCCT
ACTGCATCCCCAGTCAAGGCAATTAATCATCCATCAGCATCAGCAGCTGCCACCGTTTCTGGAATGAACCTGCTG
AATACTGTCTTCTCTGTGTTCCCAGGGCAGGTCTCTCAGCGGTTACACACCTCAGCCATCAATACCAACCCA
ACAGTTATCAGAACCCCTTCATTGCCCCTGCACCTGTTACATCCATCCACAGTACAACCACCACTCCTGTTTCCT
TCCATTTTTTCTGGCCTAGTGTCACTGCCAGGTCTTCTGCCACTCCTACCGCAGCCACTCCTACCCAGGACCT
ACACCACGGTCCACTCTTGGTTCCAGTGAAGCATTGCTTCTACTTCTGCACCTTTCAGTCCCTCCCTTTTTCC
ACCAGCTCTTCTGTGCTTCTACAGCAACCCAAATTCTGCTTCATTGTCATCAGTTTTTGCAGGGCTCCCTTTG
CCCTTACCACCAACATCCCAAGGCCTATCCAACCCGACTCCTGTAATTGCTGGTGGCTCTACTCCAGCGTTGCC
GGTCCACTTGGTGTGAACAGTCCATCTTTGTCTGCGTTAAAGGTTTTCTGACATCCAATGACACCAATTTAAT
CAACTCCTCTGCTTTATCCTCTGCTGTGTCACAAGTGGGCTGGCTTCACTATCTTCTTACTCTTCAGAACTCTGA
CTCTTCTGCTTTCAGCCCTTACAAGTGCTATGCCCCATCAGCCATCCCTACCCACAGAGGACTTCCACTCCAGG
GTTGGCCCTGTTCCCAGGCCTGCCGTCTCCCGTGGCTAACTCAACTTCCACTCCCCTGACATTGCCTGTACAGTC
TCCTTTAGCCACTGCTGCATCAGCTTCCACGTGAGTCCAGTTAGCTGTGGCTCCTCAGCCTCCCTTTTGGGTGG
CCCCACCCAGGTACCTCAGATCTGCATATTTCTATCTACCCCTGCTGCAACAACCTCTTCTGTTATGATCAAAAC
TGAGCCCAACAAGTCTTACTCCCTCGGCCTTCAAAGGTCCATCTCATTCTGGGAATCCCTCTCATGGCACTTTAGG
TTTGTGAGGGACATTGGGCCGTGCATATACTTCAACATCCGTGCCCATCAGTTTATCTGCTTGCCCTTAATCTGTC
ATTGTCAGGTCTCTCCAGCTTGAAGTACTCCTTTAAATGGTTCAAATCCTCTTTCTCTATTTCCTTCCACCACA
TGGTTCTTCCACTCCCATTGCACCAAGTATTCAGTCTCTTCTCTTTTACTTCTTTGACCAACAATTTTCTTTT
AACTGGCAACCCATCTCTTAATCCGTGAGTATCTCTCCAGGGTCATTAATAGCCACCTCATCTACCGCTGCCAC
CTCCACATCTCTCCCTCATCTAGCTCAACGGCAGCTGTTCTCTCAGGGCTTCTGCTTCAGCACCAGTCTCAGC
AGCACCTTTCCCCCTCAACCTGTCCACTGCTGTTCCCTCACTTTTCTGTTACTCAAGGACCTCTGTATCTTC
AAATCCCTCCTATCCAGGCTTTTCTGTCTCTAATACCCCAAGCGTTACCCCTGCTCTTCCCTCATTCCCGGGGCT
GCAGGCGCCCTCTACAGTCGCAGCTGTACACCACTACCTGTGGCTGCCACAGCCCCATCCCCAGCTCCAGTCCCT
CCCAGGATTGCGCTCAGCATTCAGTTCCAATTTCAACTCCGCTCTTGTGCAACAAGCCGTTTATCATCTGGACT
TCAAGCTGCAGGCAGTTCTGTTTTTCCAGGCCTTTTGTCCCTCCCGGTATCCCTGGGTTTCTCAGAATCCTTC
ACAATCATCTTGAAGAATTACAGCATAATGCGGCTGCGCAGTCAGCATTGTTACAGCAGGTCCATTGAGCTTC
GGCTCTGGAAGCTATCCAGCTCAGCCTGATGGGTTTCTAGTTATCCTTCAGCGCCAGGAACACCATTCTTTT
GCAACCAAGCCTGTCCAGAGTGGGTGGCAGTGAATACTTTTAACTTTTATTCTCTTTCAGAGCAACATCAGAAT
TGCTGAGAATGCAATGAACAATCTGACAAATGTGAAGCTGGCCAAAAGTCGGAATGAGAATGAGGGTAATC
CTGGAGAAATTTGACAAATTTGAAAATGTGGTTGCATTTTAAAGTGTGAACACTCCCTATGTAAATATGC
TGACAATAAATTTGATGGAGAATGGTATTTAAAAAGTGTGGAGACTTTTCACCTGTCCTATAAAATTTTGAAT

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FIGURE 1679B

TGTGTATGTGATCTACATAGAAAGAATATTAAAGAGTAGGTTGAACTCTTTATAGCCGAATACAGCCTTAAATAT
GCTTGTATAGCATCCACTGGCAGAAGTAATAGTTGTGCCTCAGACTTGGGGGTTGCATGTGGCCCTGGGGGAGTT
ACTACCCCTTGGTATGCATGAGCGGTTCCCTATTAGCATCAGTGGGAACCTCAGTACTCTGTATGTATCCACAAAAGG
GAACTTGAGACCCACAGTTATTCTTAATTTCTGATATTAACAACCGTACATACTGCTGAATTTAACTCAAAATAT
TTCAGGTAAGTGAAAGTGGTGCTTAATGTAGACTATAGAATGACTTTCAGGTGTTTTCAACTGAAAGTATATATC
CAGAACTGCATCCTTATAGAAATACAAGTAAGACTTAGGATAATTTGCCTTCAAAACAGTTTTCCTAATCTCAGC
AGTATCCAGTGAGTGAAGAACACTTGACTGACTCTTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTG
GTGAATGTTTACAATTATGGGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACA
ACAAATAGAGAAGACTGGCTCTGTAGTAATTATGCAGTATGTACTCTATTTAAGGATCTGTGGTAGTATAACAT
GAGTGAATGTCATTAATTTTGAAGTAATAACTGCCACATGTGGGAAGTAGGGGAGTAAGGAGAATGAATTCCAAT
CTGTGATTAAAAGTGTAAGTATAGACTCTACTGTAGTACATTTCAGGATCTAGAAGTTTTACTTTTATAAAGAT
GGTGTCCGGAAGATGTTGCTAATGTATTTTACTTCAACATAGGGAACAACTTTTTAAGTATATTAATAAACCTG
TATGGTTAGTTTTTAACAGTTTTTTAAAATAAACTATGGATATGACAAATATCTGTGTTTTACTAAGTGCTTGG
ATAGGCTTTCTAATTTTGTATACGTGCTAGAGTTAATTATGAACATTTTATCCAAATTTAGTTGTAACCTCTGT
TTATACTACTGATTGCTCATTTCGTTTAAATGATATTTAATGTAAAAGTCATAACCAACATATGAACAGACAGAT
TTATGTCTTTAAACACAGAATGTAAGCTATAGTTTAACTCTGATACCAGTTGCTGGAAGTTGCCATTTGTTTTTCT
TAAATCTATACCCATAAACTTCTTTTAAAGATTAAAAA

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FIGURE 1680

MIHSCLFSPFHIAFSTPASQLFSPHGSNPSTPAATPVPTASPVKAINHPSASAAAATVSGMNLNTVLVPVFPQVS
SAVHTPQPSIPNPTVIRTPSLPTAPVTSIHSTTTTPVPSIFSGLVSLPGPSATPTAATPTPGPTPRSTLGSSEAF
ASTSAPFTSLPFSTSSSAASTSNPNSASLSSVFAGLPLPLPPTSQGLSNPTPVIAGGSTPSVAGPLGVNSPSFVC
VKRFSDIQDTNLINSSALSSAVTSGLASLSSLTLQNSDSSASAPNKCYAPSAIPTPQRTSTPGLALFPGLPSPVA
NSTSTPLTLVPQSPLATAASASTSVPVSCGSSASLLRGPHPGTSDLHISSTPAATTLPMIKTEPTSPTPSAFKG
PSHSGNP SHGTLGLSGTLGRAYTSTSVPI SLSACLNPALSGLSSLSTPLNGSNPLSSISLPPHGSSTPIAPVFTA
LPSTSLTNNFPLTGNPSLNPSVSLPGSLIATSSTAATSTSLPHPSSTA AVL SGLSASAPVSAAPFPNLSTAVP
SLFSVTQGPLSSSNPSYPGFSVSNTPSVTPALPSFPGQLQAPSTVA AVTPLPVAATAPSPAPVLPGFASAFSSNFN
SALVAQAGLSSGLQAAGSSVFPGLLSLPGIPGFPQNPSQSSLQELQHNAAAQSALLQQVHSASALESYPAQPDGF
PSYPSAPGTPFSLQPSLSQSGWQ

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FIGURE 1681

AACCTACCTCAGTTTCAGAGAATGAAGGCATTTCACCATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCC
GACACTATGGAGAATCTATAACAAATATAGGCAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTG
GAGGAATGTTGTTCTCAAGATTGGACGTTTCATCTACAACACAGTCATCTGAAACATCAAAGACTCAATGGAAG
ATGAGAAGAAGCCAGTTGCCCTCACCTTCTGCTACCACCGTAGGGACACAGACCCTTCCACATAGCAGTTCTGGCT
TCCTCGATTCTGCATATTTTCAGACTTCAAGAATCGTTCCTTTAATCTCCCACAACCTCTTTTTCCGGAAAAATGTAA
TGCAGAATAAAGATAATGCCCTCGTGGAGTTGGATCACAGGATTGATTTTGAAGTCAAGAGAAGGCCTTGTGGAGA
GCCGCTATTGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTTCTTTAACCT
TCATGTATAAACATGAGCACGATGATGATGCAAAACCAATTTAGATCCAATCTGAAGTCTTGAAGGACATGAAT
GGCCTAAACTGATTTTTTTTTTTTTCCGTTAAATGTGTGTGTCAAGATACGGAGATTCAGGGTTAAAGTATAT
TTCAGTTTTCTTTAGGGCAACATATATTTGAATTTAAAGCACTTTATTTAAAAAAGAAAGTTTTTCAGTTCT
GAAGAAGTCATTTACAGTTTGCAATTTTTAATTATGAGTCTGACAAAACCTTCTCCAGAGAATCAAGCAAGACC
TGGATGTGAAGAAGGTTTGGGTAAACTGCATGTAAAGGCTACAAATCACAATCTGATTCCTCCCAATATAAAGG
CATATGGAACATAATGTATTAACCAAAGTATGTTATAAATCAAAATGGTCAAGGTTGAGCATATTCTATATGAA
GATCACAAGGTGGTATCGTTTTAGATTTCTATGAAGGCTTTTCAATTTGTACATCCCTTTGAAAAATATAACAGAT
TTAAATGTTTTGAATTTAACTTGTTTAGAAAACTAATGCTTAAACAATATTTGAACTACTGTATTTATAATT
TATTACCTCTAATTGCTTTATTTTCAGTGTATGAGACATTACTGTTTTAATGTTTGCTTTGAACATAATTTAAGAA
CCAGATTTATTTCTATAGTGATAAACCTTTTTTCTCAGAACTCCATCTTTGTACTCTTCAGATGAATATATAG
ACACTGTGGCATACATTTTTTTTTCATTAAAACTTATGGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1682A

CTGGCTTCAAAGCTCAGCGACCACACTGCTAATTAAGAATGCTTATGAAGAATGTTTAAATGATATGAGGAAGACT
TACAAACTGTTTTTACAAAGTTATCAATGTGTGGATTTTATTTACATGAAAGAAAAATAGTCACAAATGTTACC
TTTCAATGGTAGTATAATAGAATATTAAATTTACTTTTATTTTCAATCTAAATTTTCTACATTCTGCATGTATTC
TCTTTATAATCAITTTGTAAACTCAGAATACTGTTGTAAAGATGTCAGCTCCTTCCCGAGGAAATACCACTAGTT
AGACTTAATACACACATTTTTTTATGTTGAATTGAAATTTTACTTGGTAAATGAATCATTCCCTTTAATCTACTCT
TCTAGATTACTGATCTCTCATTACCCAACTATCTGATGGCATCTTCGGTTGGACTGCTTCTTACCCAGCTTCTGA
ATTCTTACTTGGGTACCACCCTGCGGACAATGGAAGATGTCATTGCAGAACAGAGTGTAGTGGATATTTTGT
TTGTTTACAGATTATTATAAGTATAGGCCTCATGTTTTATGTAGTTCATCGAGCTCAAGTGGAAATGAATGCAG
CTATTGTAGCTTGTGAAATGGAATGAAATCTTCTCTGGTTAAAGGCAATCAACCAAATACCAGTGGCTCTTCAT
TCTACAACAAGAGGACCCTAACATTTTCTGGAGGTGGAATCAATGTTGTATGATTCTAATGAGATACGTGATTGT
CAAGAGCCTAGTGTGCTATCTAAGGTCTAGCAGTCACTTCACTAGTGGGCAGAGACAAGTCTAATTGTATTACA
GCACAAACAAAACCTGACTAGTTTTTAAATTGCACCATTTGTTTTTTTTTAAAGCAAGAAATCAATTTCTGGGTAT
GTAAGTGTAATGTAGATGCAATTTGGCTGCACCTCTTTATCATGCCGTGATTGGCCTATAGGCTCGCACTTTA
GTGTTTTTAAATGTTTTTATTTCTGTGTATTTACGAACAGAGAAATAACCCAAATATTATTTCTGCTTAGTGTCT
TTATTTATAAGCCCATGAGTAGTTTGTATGCATCTTCTTACTTGTAAAGATGAGTAAAGATAGCATTTTAA
ATTTATAATATTATTGGATGTTCTTTGCTTTGGTAGTCTTTCCAGAAAGGATAAACAGTGGTTTTTGT
TGTTTTATTGTTTAAAGTGGGACCCTTAGCTTCCCGTTTCTTACTAGTTAAAGAACAGACATTAATTTTCAGTT
GAATGTATTTTGCAGGCATCATATTGTTACAGGGCCATTTACACCTATTACAAAGCTTAAATCCTTACCTTGTG
GGACTGAAGTGCTCTTAATATAACTGTTTATTTTCACTGTGTAATATGCAAAGCAAAGGGAAATATTTTGGTGG
ATGGTAGCTCAAATTTGGAATCTTGTCTAATTCAGTTACATTGGCTTTACCCCTCTTAGATTTTTCATCAAAG
GGCTGTCCCATTGCAATCTTACTAAAACATTTTGTAAATAAACTCTTTTCTTTTATATTAATAATAGGCT
TTTAAATAAAGATGTTATTCTTTTAAATGGTGGGCTTACCATCATTGAAGATGTCACCTCAGGTGGCCTTGT
ATCAAACGCCCTTTTTTAAACCAAGCTTTTAAACATGTTTATAATTTTCAATGAAGTACATATATATGTTCCC
ATAGTCTTACGCTTTTAAACTATAAATATGCCCAAATTTTGTATTGTCCTACTTTAAGTAGGTTTTATTGTGTT
TGTTTTTTCAGTACTTGTTTTTCTCTGATAAGACTCAGGAATCTGAAATGTGAAATGTCTCAATTTCTTCTCT
TGTAGCATGAATCAAATGTATTATTAAATAGCACTTATGACTATAGAATATAATTTGGCATATGATTATATTAC
ATATGTATTCAATTTATTTTAAATAGTTTATAAACTTAATGATTTTTTTTTTACAAATGAGGTTATAGATATTA
ATGCAAATTTTCTGGTAGGTATCTCTTTTTTGTCTATGATGATTCCAATTTATCAGAGACCTCCCATTTGCCTTT
TCATTACGGTGAAAGCTTTGCCCTCATCTACTAAAGTACAAAGGAATCTTTGGAAGCAGATTATTCTAGTCTTA
TGCTAGAGATGAATTTGATCAATTTAATGTGTGATCTTTTTGCTCTATCAGGTATAATTGTTTTCTTTTCTTTA
TAATGGGTAAGTTTTCTACCTTTGAGTAACAGTAAAGTTCAATTTATATGTCCATACCTAGAAGACCAGTGCAAA
TACTTTGAGAGCACCTGGGTCTACAGGACATAATTGGCATCTAAATCCTCATTCTTGTCTATTAGTAGGAAAACA
GATATAGTATTGTAATACCCCTTATTCTTTTTGAATCCTAATTACTCAATTCGGTTTTTTTTCTCTCTTTTGAATC
TAGTTGCTGGTTTTCTGTTAATGATTTTAGTTTAAACAATCCCAACCAACAATACATTTGATTTATTTTTCTGT
CTAACCTGACAACCTTTTCTTGTGCTTCTGTTTGTGTTAGTTTTTGTGAAAGGAATCATTGTTTAAAGATCA
CTGTTTTTCATACTTGTTTTACACTTCACGTATTTTGAAGTACATTTATTTACTAAGCATTGTGACTTGAATAAT
TTCACCAAATGAATACATTTTGGTAGTTTGAATGAGTTCTTCTAATTGTTTACACTTTGCTTGGTACTTAACAAT
AAATATGTAAAGGTAAAGAAATAATTTCTGTATTCTGCCAATCTTAATTTTATATAATAAATCATCCATTTT
TTCTTAAATAGTATGGATTGACTGTTTCTAAAATACCAATCTGTGGCTGTGGTTTTTCTTTCTTCAGCATTTT
CAGCATCCAAGTAAACAATAGTCCCTTATAGTCTGCTACTTGTATGGGTAAATTTGGTTGCTGGGTTTTTAAAGTT
GCACTCACAATAAATCGTGCAAAGCATTTGTCATGCCTTATTTACTCCATTTTAAATCCTGCATCCAGATTTATG
GCAGCAACACATATCTACAGGATACTTTTATGTTGTCCAAATATTGCTGTCAGTCAATGTACTTATAAAATGTC
TCCAGTCAATGATATTTATAGAAATGAAATGTCAAATTTCTCAGACTGTTAAAGTGCAGTATAAAGTTGCTTAAT
GCACACTTAAAAATGATATATAATTTCTGAATCCTATGAAATATGTGTTCTTTTTTAAATCTTTGGGAGTTTTCT
TAAGTTTTTACATGTTTTTTGGTTTTATGTTAATGATTTTGTGTTACTCTTTGCCAAATTTTGTGATGTAGGTTATT
TTACAATAGCACCTTTAAAAAAATGATATGCTAATTTACTAAGCATATTGATGTCATTTTATTGATCAATC
TGATTTGTGAAATAACTTGAAATTTGACTGTTTGGTTTGTGAAATAATATTACCAAATCTCTGTCAATTAGAAT
GTGACTTTTATGTTTCAAGAGTACTGTGGGTTTTATTGAGGCCAGCCATTCTCTCCCTTGATGCACTTTGTAACC

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FIGURE 1682B

AGCTACACATGCTTTTAGGTGGCTTTTCCCTGATAGGGTCAAGTATATGACTATAAAACATTTTCTTGGAAGC
TATTAAGTTCATTAGTTACTCTTATTTCCCTTGTTGTAAGTAAAGTGGTGCAGGTATAAGCATATCCCCAGCATT
CCTGTGTGTGTAATGTGCACTGCTGATTGGACTGTTCTTGAGAAAGGTGCTGTGACATATGTCAATATTTGTT
AGCTCTGGGGATATCTTTAGAATGCTTGAGAAAGTTGCTAGGTGTGTGCCACATTGGTGCAGGTAAATCCATGCT
GTTACAGCCAAGCAGCATTTCAGAGAAAAGGAGAGTTTTACATAGACCCAGGAAAAACAGTACTAACCTGGT
TGATGGCCTTGGTGGTGAATTTTGTTCAGCCAGAGGCTACTCATTATATCAGAATGATGTTCAGTATAACACT
ATCTGATTTTGTAGATTGGTCGATTTCTGTTGTAATCAAGTATTTAGGATGTAATCTTTTTAAAGTCATTGCTTTA
ATCTGAAAAGCCATTAGAAGGGAGAGGAATCACTGTTCCACAGGATATTTAAACTCAGGAGTCAAATAACCTC
ACATATTGAACATAAACTGTAACTTATTCACAATAAATCTAACCTGATACTTATGAATTGCAAAGTGATTG
CTGCAAACTTTTCTAAGGTGGCTGAAGATTTAAATAGATCATTCTAAAGGGAATCAGTAAAATGCTTTGATA
ATTGGTATCAAATCACTTGTGTGCCTGAGAAAATAAAAGGTAATATTTTACTTTCAAAAAA

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FIGURE 1683

MASSVGLLPQTQLLSYLGTTLRMTEDVIAEQSVSGYFVFCIQIIISIGLMFYVVHRAQVELNAAIVACEMELKSS
LVKGNQPNTSGSSFYNKRTLTFSGGGINVV

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FIGURE 1684A

CAATGCTACATATGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTCTGACAAATGTCTGGAAACACTTCG
AGGTGATGGAAATGTGTTAATAGCAGTGGACACAGCAGGCAGAGTTTTGGAACCTTGCTCAACTTCTTGATCAGAT
TTGGAGGACTAAAGATGCAGGATTGGGTGTTTACTCATTGGCACTCCTAAATAATGTCAGTTACAATGTGGTGGA
GTTTTCTAAGTCCCAGGTAGAATGGATGAGTGATAAATTGATGAGATGTTTTGAAGACAAAAGAAATAATCCGTT
TCAGTTTCGCCATCTCTCTTTAIGTCATGGTCTTTCTGACTTGGCCCGTGACCTAGCCCTAAAGTTGTACTTGC
CAGCCAACCTGACCTGGAATGCGGATTTTCAAGGGATCTCTTTATTTCAGTGGTGTGAGGACCTAAAACTCAAT
CATTCTAACCTACAGAACTACTCCTGGGACTTTAGCACGTTTCTTAATTGATAATCCTTCTGAAAAAATTACAGA
AATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAGAACTTGAAGAATACTTGGAAAAAGAGAACTAAAGAA
AGAAGCTGCCAAAAAGCTTGAGCAGTCAAAAGAGGCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGA
TATTGACCAGCCATCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAAGGAAGTTT
TTTCAAACAGGCAAAAAAGTCCTATCCTATGTTTCTGCCCCAGAAGAAAGAATTAAATGGGATGAATATGGAGA
GATTATCAAACCAGAGGATTTCTTAGTGCCAGAGCTTCAAGCTACTGAAGAAGAAAAAGCAAATTAGAATCTGG
TTTGACAAATGGAGATGAACCTATGGATCAGGATTTATCTGATGTTTCTACTAAATGTATTCTACAACAGAGTC
TATTGAAATAAAAGCCCGGGTTACCTACATAGACTATGAAGGACGCTCTGATGGGGATTCCATTAAAAAATCAT
TAATCAGATGAAACCACGACAGTTGATCATCGTCCATGGCCACCAGAGGCCAGTCAAGATCTGGCAGAGTGCTG
TCGCGCCTTTGGTGGGAAAGATATTAAAGTGTACATGCCAAAGCTACATGAAACAGTTGATGCCACTAGTGAAC
TCACATCTACCAGGTGAGGTTAAAGACTCACTTGTGAGCTCTCTTCAGTTTGTGAAGGCAAAAGATGCTGAATT
AGCTTGGATAGATGGTGTCTTAGATATGAGAGTTTCCAAAGTGGACACAGGGGTATTTTTAGAAGAAGGAGAACT
AAAGGATGATGGAGAAGACTCAGAGATGCAAGTGGAAGCTCCCTCAGATTCTAGCGTTATAGCACAACAAAAGGC
CATGAAAAGTCTGTTCCGAGATGATGAAAAAGAAACAGGTGAAGAAAGTGAGATCATTCTACTTTGGAACCTT
GCCACCTCATGAGGTTCTGGACATCAGTCAGTTTTTATGAATGAACCAAGGCTGTGAGACTTCAAGCAAGTTCT
CTTACGGGAGGGGATTCAAGCTGAATTTGTAGGAGGTGACTTGTGTTGCAACAATCAAGTAGCAGTCCGCAGAAC
GGAACTGGACGCATTGGATTAGAAGGCTGCCTTTGTCAAGATTTTTATAGGATAAGAGACCTTTTATATGAACA
ATATGCCATTGTATTAAGGACATGATGTCAAGAAGTATCTGCTTGACCTTTCTAAGAAAAAGGGATTCTTATCTT
ACTCTGAGCTTTTGATGTTTTGTTTTGTAACATACAAAAAGAACTGCGCAGAAAAACTTACATGTATCAGATTTT
TAAAAATATAAATAGAGAACATTTTGCAATGCTCAATGAGCATTCTATCTTTGGCTTTTCAAGTGATAGAGC
TCCTAACAGGTGTACAGGCCCAAGAGTTGAAGGTGATTGGTTTTCTTTACAGACTCCTTGTTCTCTAGAAGGGCT
TTTTACTTGAATAAAACAAATGCAACTTAGCAAACCAATTTATGGCCTTAGAGAAACATTTTGCATGAGTTCTTA
CAAAGTGTGTTATATTTCTGGAATGATAAGTGAGAATTATTTAGAAAAGACATGCTCCAAAAAACAACAAA
ACTGATAAAACAGTTTTTTCGAACTTACTTTTAAAGCATACGTGCTATGACTCTCTCCAGTTTGAATATGCAAT
TGTTTTTACAGGCAGGATGCTGTTTTCTGCTGTATTTCCAGTGATTTACTCTAGGGTAAGGTAGTACACATT
TGGTTTCAAGAAATTAATTTTATTTCTCTATATCTTGTTTTATCAAGATTTTGTGTGGCATTCAATGTAAAT
ATAACACCATCATTTGAGTATACATAATTCAAAGAAGTACTTGATGCAGTATAGTCTTAAGGGTCTGCATACA
TTTTAGAAACATCTTAGCCGTAAGTTAGGTCTGTGTTAACTGTTTAGTGCTCTGTTTTTAAGAAAAACAAATGT
TGAACCTCACACTTTTATGTGGTGACAGTGAATTTAATTAAGGTGTAAATGTTTTCATCTCTTAGGCTTGCT
GTCTCCTAAGGTCAACCAAGCAGTGGTTGGATTTTATACACATTACTACTAAAATAATACTGAAGTTGGATAAGG
TTATCCTTTCTGTATTTGCGTCTTTCTTGTGACTAACACCCTGATATAGTATTAACCACTGTGTCAAGAGTAA
AAACAATATATGCAATTTTCATTGAACCTAAAGAGTGAAAACCATGTAAACTATTGAAACTATTGTAATCCATT
ATGCTTTTTTGAATGGCAGACCTTGATGTTTATTTCTCAATGGTTAAGCCCTCTTCTTACTCTTAATTTTTT
TTTGAGACAGAGTCACCCAGGCTGGAGTGAGTGGTGAGATTTTGGCTCACTATAACCTCTTCTCCAGGGTTCA
AGTGATTCTCCACCTCAGCCTCCCAAGTAGCTGGGACTACGGGCACATGCCACTGCACCTGGCTAATTTTTATA
TTTTTGGTAGAGACAGGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGCGATCCACCCACC
TAGGCCTCCCAAAGTGCTGGGATTACAGGCATGAATCACCACAAGTACCTACCTTAGATTTTTGGAAGGATCG
ATCTTATTTAACTATGTGTGGAACAACCCAGTAATATCAGACTCGAATTACTATTTTCAATCTATTTCAAATGCTT
ATAAAGCTACTATTGTAGATTATAGTGTTAATGCAAAGTTTACAGACTTTTGATATGGAAGAACAGATAAAACAA
TGTTACAAAAGGCAAAATATAAAGAGTATGTTTTCTTTTATAGTGCTTTGGAAAAATTTCACTTAAACTCTTATTAC
TGTATAGATTAAAGCCCTATAATGCTATTTATATCCAGGGGAACGAAAATCTGAATTTGTTTTATGATTTAAAGC
ATCTGGTTTGCATATTGTATTGTAATACTGATACAGTTTGGCTGTGTCCCCACCAAATTGAATTGTGTTAATAGT

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FIGURE 1684B

TCCCATAATCCCTACGTGTTGTGGGAGGGACCCAGTGGGCAGTAATTTAATCATGGTGGTGGTTACCCTCATGCT
GTTCTTGTGATGGTGAGTTCTCATGAGATCTGATGGGTGTTTTTTTTTGTGTTTTTGTGTTTTTGAGATGGA
GTTTTGCTCTTGTTGCCCAGACTGGAGTGCAATGGCACACGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGT
CAAGCGATTCTCCTGCCTCAGCATCTCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCCAGCTAATTTGT
ATTTTAGTAGAGACGGGGTTTCTCCATGTTGGTTAGGCTGGCCTCAAAC TCCCGACCTCAGGTGATCCGCCCCG
CTGGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCTCCTGGCCCAAGATCTGATGGTTTTGTAAGGG
AATTTTCCCCCTTTGCTTGGCACTTCTTCCTGCTGCCATGTGAAGAAGGATGTGTTTGCTTCCCCTTCCACCATG
ATTGTAAGTTTCATGAGGCCTCCCCAGCCTGTGGGACTGTGAGTCAATTAAACGTGTTTACTTTATAAATT

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FIGURE 1685

NATYVQPRRKQRDEQLLTNVLETIRGDNVLIIVDTAGRVLELAQLLDQIWRTKDAGLVYSLALLNNVSYNVVE
FSKSQVEWMSDKLMRCFEDKRNNPFQFRHLSLCHGLSDLARVSPKVVLASQPDLECGFSRDLFIQWCQDPKNSI
ILTYRTTPGTLARFLIDNPSEKITEIELRKRVKLEGKELEEYLEKEKLKKEAAKKLEQSKEADIDSSDES DIEED
IDQPSAHKTKHDLMMKGEGSRKGSFFKQAKKSYPMFPAPPEERIKWDEYGEI IKPEDFLVPPELQATEEEKSKLESG
LTNGDEPMDQDLSDVPTKCISTTESIEIKARVTYIDYEGRSDGDSIKKIINQMKPRQLIIVHGPPEASQDLAECC
RAFGGKDIKVMPKLHETVDATSETHIQVRLKDSLVSLSLQFCKAKDAELAWIDGVLDMRVSKVDTGVILEEGEL
KDDGEDSEMQVEAPSDSSVIAQQKAMKSLFGDDEKETGEESEI IPTLEPLPPHEVPGHQSVFMNEPRLSDFKQVL
LREGIQAEFVGGVLVCNNQVAVRRTETGRIGLEGCLCQDFYRIRDLLYEQYAIIV

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FIGURE 1686A

GCAGGATGTGATGGAATGAAAAAACAAAGGTTTCGCTAATGAAACAAATGAAAGAACAAGAGAAAGCCAG
ACTGACTGAGTCTAGAAGAAACAGAGAGATTGCTCAGTTGAAAAAGGATCAACGTAAAAGAGATCATCAACTTAG
ACTTCTGGAAGCCCCAAAAAGAAACCAAGAAGTGGTTCTACGTGCGAAACTGAAGAGGTTACGGCTCTTCGTGCG
GCAAGTAAGACCCATGTCAGATAAAGTGGCTGGGAAAGTTACTCGGAAGCTGAGTTTCATCTGATGCACCTGCTCA
GGACACAGGTTCCAGTGCAGCTGCTGTCGAAACAGATGCATCAAGGACAGGAGCCCAGCAGAAAAATGAGAATTCC
TGTGGCGAGAGTCCAGGCCTTACCAACGCCCGCAACAAATGGAAACAGGAAAAAATATCAGAGGAAAGGATTGAC
TGGCCGAGTGTATTATTTCCAAGACAGCTCGCATGAAGTGGCAGCTCCTTGAGCGCAGGGTCACAGACATCATCAT
GCAGAAGATGACCATTTCACACATGGAGGCAGATATGAATAGACTCCTCAAGCAACGGGAGGAACTCACAAAAAG
ACGAGAGAACTTTCAAAAAGAAGGGAGAAGATAGTCAAGGAGAATGGAGAGGGAGATAAAAAATGTGGCTAATAT
CAATGAAGAGATGGAGTCACTGACTGCTAATATCGATTACATCAATGACAGTATTTCTGATTGTCAGGCCAACAT
AATGCAGATGGAAGAAGCAAAGGAAGAAGGTGAGACATTGGATGTTACTGCAGTCATTAATGCCTGCACCCTTAC
AGAAGCCCCGATACCTGCTAGATCACTTCCTGTCAATGGGCATCAATAAGGGTCTTCAGGCTGCCCAGAAAGAGGC
TCAAATTAAGTACTGGAAGGTCGACTCAAACAAACAGAAATAACCACTGCTACCCAAAACCAAGCTCTTATTCCA
TATGTTGAAAGAGAAGGCAGAAATTAATCCTGAGCTAGATGCTTTACTAGGCCATGCTTTACAAGATCTAGATAG
CGTACCATTAGAAAATGTAGAGGATAGTACTGATGAGGATGCTCCTTTAAACAGCCCAGGATCAGAAGGAAGCAC
GCTGTCTTCAGATCTCATGAAGCTTTGTGGTGAAGTGAAACCTAAGAACAAGGCCCGAAGGAGAACCACCACTCA
GATGGAATTGCTGTATGCAGATAGCAGTGAAGTACTGCTTCAGACACTAGTACAGGAGATGCCTCCTTGCTGGCCCC
TCTCACACCTGTTGCAGAAGGGCAAGAGATTGGAATGAATACAGAGACAAGTGGTACTTCTGCTAGGGAAAAAGA
GCTCTCTCCCCACCTGGCTTACCTTCTAAGATAGGCAGCATTTCAGGCAGTCATCTCTATCAGAAAAAAAAT
TCCAGAGCCTTCTCCTGTAAACAAGGAGAAAGGCATATGAGAAAGCAGAAAAATCAAAGGCCAAGGAACAAAAGCA
CTCAGATTCTGGAACCTCAGAGGCTAGTCTTTACCTCCTTCTTCCCCACCAAGCCGGCCCCGTAATGAAGTGA
TGTTTTTAATCGTCTTACTGTTTCTCAGGGAAACACATCAGTTCAGCAGGATAAGTCTGATGAAAGTGACTCCTC
TCTCTCGGAGGTACACAGATCCTCCAGAAGGGGCATAATCAACCCATTTCTGCTTCAAAGGAATCAGAGCTTT
TCCACTTCAGTGTATTCACTAGCTGAAGGGCATACAAAAGCTGTGCTCTGTGTGGATTCTACTGATGATCTCCT
CTTCACTGGATCAAAAGATCGTACTTGTAAAGTATGGAATCTGGTGAAGTGGCAGGAAATAATGTCAGTGGGGG
TCATCCCAACAATGTCGTCTGTAAATACTGTAAATATACCAGTTTGGTCTTCACTGTATCAACATCTTATAT
TAAGGTGTGGGATATCAGAGATTGAGCAAGTGCATTGCAACACTAACGTCTTCAGGTCAAGTTACTCTTGGAGA
TGCTTGTCTGCAAGTACCAGTCAACAGTAGCTATTCTCTGAGAGAACCCAGATCAATCAAATTGCCCTAAA
CCCAACTGGCACCTTCTCTATGCTGCTTCTGGAATGCTGTGAGGATGTGGGATCTTAAAGGTTTCACTCTAC
AGGAAAGTTAACAGGACACCTAGGCCCTGTTATGTGCCTTACTGTGGATCAGATTTCCAGTGGACAAGATCTAAT
CATCACTGGCTCCAAGGATCATTACATCAAAATGTTTGATGTTACAGAAGGAGCTCTTGGGACTGTGAGTCCAC
CCACAATTTGAACCCCTCATTATGATGGCATAGAAGCACTAACCATTCAGGGGATAACCTATTTAGTGGGTC
TAGAGATAATGGAATCAAGAAATGGGACTTAACTCAAAAAGACCTTCTTCAGCAAGTTCCAAATGCACATAAGGA
TTGGGTCTGTGCCTTGGGAGTGGTGCCAGACCACCCAGTTTGTCTCAGTGGCTGCAGAGGGGGCATTGAAAGT
CTGGAACATGGATACTTTTATGCCAGTGGGAGAGATGAAGGGTCATGATAGTCTTATCAATGCCATATGTGTTAA
TTCCACCCACATTTTACTGCAGCTGATGATCGAAGTGTGAGAATTTGGAAGGCTCGCAATTTGCAAGATGGTCA
GATCTCTGACACAGGAGATCTGGGGGAAGATATTGCCAGTAATTAACATGAATGAAGATAGGTTGTAACTGAA
TGCTGTGATAATACTCTGTATTCTTTATGGAATGTTGTCCTGTACTTACTAGGCAAAACGTATGAATCGGATT
AACTGGAAAATATATCTGAATCAACTGCTGACTATAAATGGTATTCTAATAAAATTTGTGACTATCCTGTGTGC
TTAGTTTTAAGATCAACCAATAGATATATATCCTACAATTGATATATTGCTTTATTCACACTTTTATTGTGGCTG
AATTTTGTGCCTATCTATAAAACACACTTTCAAATTATTTGAATTACCAAGACGTCTGCTTTTGTGACAGTCAG
AAAACACACCTGGAATACGATGCAGCCACCATTAACTCATTCATGATGTTTATTCAAGTGATTTATGATTTAA
ACTAAATATTGAAAATGTTAGTCAAATTTGTGGTTTGTCTGTGAGGATTTTATATCAGTCTGTAGTGGATTCCCAA
ATTTCAAAGCTCTTTTAAATGTAATGGACAAAAATAAGATATGAGAATATTATTGATGAATTTTATAAGGTGGAA
TTGATCTTAATCTACTAACAGAGAAGGGTAGACAGTTTGTGTTAAATGTTGGCATTTACTTGTATTGACCAAAGT
TTTGCAGCTCTACTATATTCTGTGCTCAGGACTAAAATGCTGTAAATTTTTTTTTTTTTTCCAGTGTGTGCAT
ATATTCTGTGATGGGAAACATTGTTGATGTCTAACAGAAATATATTTTGTATCTATTTTCTATGGAGTTGTTTC
TATTATGACCATTTAATTTGTTTTTATTTAATAGTAGTATTTCCTTCCCTTTTATCTAATTTTTTATATGCTGC

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FIGURE 1686B

TAAATATATTTTAAATATACTATGTTTGCGAACCTTGGTAGCTATGATGAGAGCTATTATCATCTGTGGTGGGAA
AAGCTATGTAAATAGGTAGATTGTATAGAGAGACTATCTTGTGTTGTGCCTGTATGAATTTTTAAAAGTTGTTGA
CTGGATTTTGCAAAGGATGTATAATATTTCTGTCTGCTCAGAATATTAATTTGTAAATTCTGCAAGTTTAATTT
TTATGTAGATGGTATAACATTTGAAAATATTGCTTAAGTGATTTTTCCCTGAAAATATTTGCTTGTAATGA
AACTTAGCTAGGGCTTAAATAAACATGTTGCTATGAAATT

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FIGURE 1687

QDVMEMKKT KVRLMKQMKEEQE KARLTESRRNREIAQLKKDQQRKHQLRLLEAQKRNQEVVLRKTEEV TALRR
QVRPMSDKVAGKVTRKLS SSSDAPAQDTGSSAAAVETDASRTGAQQKMRI PVARVQALPTPATNGNRKKYQRKGLT
GRVFI SKTARMKWQLLERRVTDIIMQKMTISNMEADMNRLKQREELTKRREKLSKRREKIVKENEGEDKNVANI
NEEMESLTANIDYINDSISDCQANIMQMEEAKEEGETLDVTAVINACTLTEARYLLDHFLSMGINKGLQAAQKEA
QIKVLEGR LKQTEITSATQNQLLFHMLKEKAELNPELDALLGHALQDLDSVPLENVEDSTDEDAPLNSPGSEGST
LSSDLMKLCGEVKPKNKARRRTTTQMELLYADSS ELASDTSTGDASLPGLTPVAEGQEIGMNTETSGTSAREKE
LSPPPGLPSKIGSISRQSSLSEKKIPEPSPVTRRKAYEKA EKSKAKEQKHS DSGTSEASLSPSSPPSRPRNELN
VFNRLTVSQGNTSVQQDKSDES SSSLSEVHRSSRGGIINPFPASKGIRAFFLQCIHIAEGHTKAVLCVDSTDDL
FTGSKDRTCKVWNLVITGQEIMSLGGHPNNVSVKYCNYSLVFTVSTSYIKVWDIRDSAKCIRLTSSGQVTLGD
ACSASTSRTVAIPSGENQINQIALNPTGTFLYAASGNVARMWDLKRFQSTGKLTGHLGPVMCLTVDQISSGQDLI
ITGSKDHYIKMFDVTEGALGTVSPTHNFEP PHYDGIEALTIQGDNLFSGSRDNGIKKWDLTQKDLLQQVPNAHKD
WVCALGVVPDHPVLLSGCRGGILKVWNMDTFMPVGEMKGHDSPINAICVNSTHIFTAADDRTVRIWKARNLQDGO
ISDTGDLGEDIASN

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FIGURE 1688

CTATTTTGTGGTAGTATTGTGGAACAGTCTTGTATGGAGTGCCAGCTTAGAGGTTGTTGCAAACCTGTCTAGA
AGTGAGAGCATGGTTTTTTTAGCCCTTTGAGAGTCTACATCTAATGAACATTCTTGCTCACCATAAATAACGT
CAAGCCTCAATGTCACCGTCACGTTGGGATACTCTTCTCATCTGGCATCCTAGACAGGACAAGGTTGGTTACCT
TTCCCTTCATGAACCATGAACCTGTGACGGCATCATTCATCTGACTTCACCAAGCTCCGCCCTGTGGGTGAGGCC
AGAGCTCCCAGTGGCAATTTTGTAGAAGAGCCAGAGGCTCCCTGCTTCCTCTAGAAATAACAGTTTCAGGGTGAAGC
ATGGAGGGTTTTAGTTCCAGACAACGGAACCATTTAGAGACAACACAGTTGGACATTTCCACTTTTTCTTGAT
TCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCCAGCAGCAGAGAGACAGGACAGAGGGGATG
CTTGGGCGGGGAGGGACGGTAACCTGCAGAACAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGT
CCTGCTTTCCAGACTGGATTCCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTCTCC
GAATTCAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAGCCATTTTCATTGTACTTGATAACAGCACGA
GTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAAAGAGGGACTTTTTAAAAATTGTTCTTTCCG
TCAGAAGCCTTTTGGATGACTTACAATAGCTCTGATGAAGATACCACCCAGCGTCAGTCCAATAGGTCAGTGAG
TTTCAACAGGCATCCATCCCTCCCATGAAGGGATTCTGGTGATGGGAAGTTTCTGTAATGACAGGAAAGCATTGA
CCCTCATTGATTGTCAACTTTGGTATTAGCCATGAAAGACAGGATGCTCATTGGGTGTTCTGTAGAGTGAGGAAT
GCTGCCTATTCCCTCCCAGAACGTCTGACCCAGGGGTGTGTGTTGAGGAGCCCTGGGGGAAATGGACCAAGTTTT
CCCACAGAGCAGTATTAGGCTGAAGAGCAGGTGACTGGTAGGCCCCAGCTCCCATCATTCCCTCCCAAAGCCATT
TTGTTTCAGTTGCTCATCCACGCTGGATTCCAGAGAGTTTTCCAATTTGGGAAGCCATGAGAAAGGTTTTTAAATC
TTGGGAAGATGGAGAGAGGGACATAGGATAGTTGACTCCAACATGACAGGAAGAGGCTGGAGATTGGGAATTGGC
CATCAACCAAGCCTGTAGTAGTAAAGCCATGGTCCCGCATTGGAATTACTTGGGGAACCTATACAGTTCTGATAC
CCAGGCTCTCTAGACCAGTTCAACCAATTCTAGGTGGGGGACTCAGGCATCAGTGTGTTTCGTAGCTCCCCGGG
TGTTTTCCCTGTGCAGCCGAGCTTGGGAAACTGCCATGCTTTTTGGATGTCAAGGCGCTGTTGGAGGCTGSGTGT
GACAGCACAGAGCCAGGTTGTCTTGTGGAAACCACAGCCACGGGTTGCCACTGGCTCAGCATGSCCTCACTGCC
AGTCCCAGCCTGGCTGAGGGACAAGATGGTTTCTCTTGGGAGTTCTTGAGTGGAGCACCTTCCAGGCTTTTTGA
AAGCCAGCTGATCTGTGGAGCCTTGTTAAGGACTCAATACGGTGTGTTGGATATTGATGTTTTCTTGAGACTG
TCTTGTCCATCAATAAAGATGGAGGATGTCTCTCTTTGAACCCGCTTCCCACCAGTACTCTCTCTCCCTTAG
AGTTTATGAGTTATTCAAGGAGGAGACTTCTTAAAGACAGCAACGCAATTCTTGTAACCTGTGTAAATAGCCCCA
TCTTTCAGAGTGATACCATTCTACATTTGATAATGCCTGTATTCTGTAGGATGTATATAGTTTAGGGGATTTT
TTTTTTGTTTGGTTTTGTTTTTTAGAAGTCAATATGTCTGGTTTTATTTATTGCTTGAAAAAGATCATTGAAAA
AAATAAATACATTTTCAATTCCAGAAAGGATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG

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FIGURE 1689

MSGAEKEVM

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FIGURE 1690

GCGCGAGAGGACGTGCTCTGCCAGCCAGTGGGAAGGCAGGCCGCGCGCGGGAGCGCGGGAGGATCGGCGGCTC
GCGGTCACTGGTCCCTGGCTCGGTTCCCCGCACCCCGGGGCTCACACTTACCCGCGCGGAGGAGCAGCGGCCGGG
TGTCACCCCCATCCTGCGCCAGTCTCCTCGATTCCCTCGCTCTGAGCCGGGAGAGCCGAACAGCTGAAGAGA
GTTCACTGACTCCCCAGCCCCAGGTGGGCCTTGTGCACATCATGACCAGTTTTGAAGATGCTGACACAGAAGAGA
CAGTAACCTTGTCTCCAGATGACGGTTTACCATCCTGGCCAGTTGCAGTGTGGAATATTTTCAGTCAATAAGTTTTA
ACAGAGAGAACTCCCTTCCAGCGAAGTGGTGAAATTTGGCCGAAATCCAAACATCTGTCATTATACTTTTCAGG
ACAAACAGGTTTCCCGAGTTCAGTTTTCTCTGCAGCTGTTTAAAAAATTCAACAGCTCAGTTCTCTCCTTTGAA
ATAAAAAATATGAGTAAAAAGACCAATCTGATCGTGGACAGCAGAGAGCTGGGCTACCTAAATAAAATGGACCTG
CCATACAGGTGCATGGTCAGATTCCGAGAGTATCAGTTTCTGATGGAGAAGGAAGATGGCGAGTCATTGGAATTT
TTTGAGACTCAATTTATTTATCTCCAAGATCACTCTTGAAGAAAACAACCTGGCCACCACACAGGCCCATACCG
GAGTATGGCACTTATTCGCTCTGCTCCTCCCAAAGCAGTTCTCCGACAGAAATGGATGAAAATGAGTCATGAACA
CAGAAAGTCTAAGAGGAGAAATATGATGGATGAAGAGCTCTGTAGATGCTGTATAGACACTAAATAAGAGTTGAT
TAGGGTAGTATATTATAGTCATCTGTTATGCTGTGAAATTTGGAATTCAGTATTATCATTTTGAAGCTGTAAAT
TGTGTTAGTCATTAACTTAGTCACCTGTTGTATTCTGGATCTACACAAAATTATTTAACTGCTCTTATTAATCT
GTGAGGATTAATATACAAAAAGTATCCTTTGAGATGAAGTCGTGTTCTCAAAATAAGGTTATATTATTTCTTTT
TCTGCTTGATTTTCATCTTGTTTTGCTTTGTTTTTGAAGGAACCATCTCTGGTTTGGTCACATCAGTTCAC
AACAGCCATTTGTTTTCAAGGTCAAGGCTCCAGGCAGGTTGTTACTGGTGTGTTGCAGCCTGTCAGTACTTGCAGT
ACTGGAATAGGTTCTAGGCTAGTGTCTGCGCTCACTGTGGTTTTAGCATGGGAGGACTTATTTGAGAAATACTA
CCTTACTTTTCTATGATTTCTTTTTACAGAGTTATAGTGTGTTTACTCCTAAGATGACAGTTCTCTTGTCTATA
TTCAGCATCTAAGACAAATATTTAAACATTTTAAAGAACCAGTGTGTTAAGTTTAGGATTATTTACTTACCAAT
TAGAAGTTTGACTTTTATGTGTTATACACAATCTTAAATTTTACGAATTCACCTTTTAAATAGTATCCATGTAC
ATAATAAATCAAAGTTTAAATAGCCATTTTCTTGAATTTTTTCTAAATAAGGGAAATAACTGTTCTTGGGCC
ACTTTACAGAGATAAATGTATGTGAATGTTTATGATAACGCTTAAATATTTCTAAATATTTAACTTCAAAAAAG
TCTTTTTCAGTTCTTAAATAAAAAATTTATTTATTTAAGATACTTATTCGACTTATCTTAACTAAGGTAGCTATGA
ATGTTAAGTAGATGAGGTAACCATTCAGTTAAGTTAAATTTAGTATGCGAGGTAGTGAAGGCTCACTGTACAAT
TTTCAGGTAAATGAAATTTCTGTAGTAAGAGGTCCGATTTTTGTAACAGCCTTTTAAAAATGCTTTTGGGAA
CCCTCCAGCCTCTTACCAAAGAGGCTTTAAACCTCATCTTGATTGAGACTGTCAGTCTATTCTGGGCAGTAGT
ATGTGATGTCCAGCACCTAACCCGACTCCCCAGCCCTGGGACTATTCAGTAGAGTGAAATATTTGTCCTGT
ACAAAGTGGCCTGAATGACTGTTGGAGTTCTGTGTCTGGTTTTCTGTTTATTCCTGTGATGCCAGAGTAAT
GGCCCATCCAAAGATGTCCAGATGTCCATGTGCTAGTCTCCAGAACTGTAACTGTGTGTTATGTGGCAAAGGG
GAATGAAGGCTGCAGATGGAAGTAAATAGATTATGCTGGATTATCTGGGTGTGCCCAATTGATCACCGGATCCG
TAAAAGTGAAGAGAGGCAGATCAGGATGTCAGCGTGATGAGGTGTGAGACAGACTTGAATGCTGTTGCTGGGA
GGAAGGGGAGGTCATGAGCCAAGGAATGTGGACAGTCTCTGAAGCTGGAAGTGTGCATTGGACATCTGGAAGC
CAGAAAAGACAAAGAAATATCCAGAAAGGAACAAAGTCTTGTGGACACCTTGATTTTGTCCAGTGAGAAATATGT
TTGACTTGTTAACCTACAAAATTTATGATGATAAATTTGTGTTGGTCGTAAGCCACTAAATCACAGTAATTTGT
TATAGCAGCAGATAGAAAATAATATACTCCCTTTAATATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1691

TACAGGCGTGAGCCACCACCCCGGCTGTATTTTCAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAA
GATAATGTCTCTTTGAGGCTTCCTATGGACTGCCTTTATTTTAGTAAACTCAAGACACCAGTTAACCTCAACAGA
GTTTTGGCCTTATTAGAATTTGTTGTGCATCTTATTGAAAGCCAGGTTTACATCACCTCACCCATTATTCTTTT
TAGTTAAATAAATTTACCATGCCAAGTAACCAGAATGGAGCAAATGGTTGATCTTTAAGGCAGTAGGTTTGACT
AGCTAGCTATCATTATTGTCACATCTAATGCTAGGCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATT
CCAGAGACACTTTAGACATTTTTTAATGTTTTATATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAT
TTTCCTAGTGCTGATAAAAACAGCAACATTCATACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTA
ATGGTTTTCAAATAAAGTGCACCTGAATTTGTTTATGTGCCTTAAGTTCCTAGTGCTATTTCACTTTTTTTTCA
ATCTAAATGAAGCTTACCTTAGATAAGGTTTCATATTTGTTTCCTATAGAGTAAATAAACTTCCCCTTCTTAAATT
GTGTAATAAGCACCAACGTGTGGTTGCTTGGCAGAATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTC
ATTATATTTTTTGTTTTTATTTTTTGATACCTAGGTGCTTTTTTAAAAATTCAGACAAATATCTATCTTACATTG
ATTAAACCCGTGTAAATTCATTTGCAGTATCTACATCGAATGTCAAAAAAGTATACTTATTTTTTGTTCCATACTT
ATGTACAATTTTTTCCCCTCTTCAGGCTTTTTTCATTTACCTTTTTTGAAAAAGCACTTACTCTCCCCTTCCCTATCA
CCCCTCCCCAAGGTTTTCTTTATTTAAATTTTTATTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGT
TGAACAAAAGTATAATCTGCTTTACAACCTAGTATAGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTC
TTCATAGTGGAAGAATGCTTTGTATTTAATTGTCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTT
TTGTTTAAATATACTTCTTGCATAGTTTAATTTTTTAAAGTTGTATCTAATAAAATGTCTTTTAACCATTATTA
CTTGACTATATGGTTGCTTAAATTTTGTTACG

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FIGURE 1692

TGVSHHPRLYFQRGELGVFVPSGKIMSL

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FIGURE 1693

GTGGGGTTTGCAGAGGAGACAGGGGAGCTTTGTGTACCCGGAGCAATGAACAAGCGGCGACTTCTCTACCCCTCA
GGGTGGCTCCACGGTCCAGCGACATGCAGGGGCTCCTCTTCTCCACTCTTCTGCTTGCTGGCCTGGCACAGTTC
TGCTGCAGGGTACAGGGCACTGGACCATTAGATACAACACCTGAAGGAAGGCCTGGAGAAGTGTGAGATGCACCT
CAGCGTAAACAGTTTTGTCACTGGCCCTGCAAATGCCCTCAGCAGAAGCCCCGTTGCCCTCCTGGAGTGAGCCTG
GTGAGAGATGGCTGTGGATGCTGTAAAATCTGTGCCAAGCAACCAGGGGAAATCTGCAATGAAGCTGACCTCTGT
GACCCACACAAAGGGCTGTATTGTGACTACTCAGTAGACAGGCCTAGGTACGAGACTGGAGTGTGTGCATACCTT
GTAGCTGTTGGGTGCGAGTTCAACCAGGTACATTATCATAATGGCCAAGTGTTCAGCCCAACCCCTTGTTCAGC
TGCCCTCTGTGTGAGTGGGGCCATTGGATGCACACCTCTGTTTATACCAAAGCTGGCTGGCAGTCACTGCTCTGGA
GCTAAAGGTGGAAGAAGTCTGATCAGTCAAACCTGTAGCCTGGAACCATTACTACAGCAGCTTTCAACAAGCTAC
AAAACAATGCCAGCTTATAGAGATCTCCCACTTATTTGGAAAAAAAATGTCTTGTGCAAGCAACAAAATGGACT
CCCTGCTCCAGAACATGTGGGATGGGAATATCTAACAGGGTGACCAATGAAAACAGCAACTGTGAAATGAGAAAA
GAGAAAAGACTGTGTTACATTGAGCCTTGCGACAGCAATATATTAAAGACAATAAAGATTCCCAAAGGAAAAACA
TGCCAACCTACTTTCCAACCTCCAAGCTGAAAAATTTGTCTTTCTGGATGCTCAAGTACTCAGAGTTACAAA
CCCCTTTTTGTGGAATATGCTTGGATAAGAGATGCTGTATCCCTAATAAGTCTAAAAATGATTACTATTCAATTT
GATTGCCCAAATGAGGGGTCATTTAAATGGAAGATGCTGTGGATTACATCTTGTGTGTGTGAGAGAACTGCAGA
GAACCTGGAGATATATTTCTGAGCTCAAGATTCTGTAAAACCAAGCAAAATGGGGGAAAAGTTAGTCAATCCTGT
CATATAATAAAAAAATTAGTGAGTATAAAATGGTGGCAAAATCTACTTTGTTTAAAACAGTATGAATGCCATTCT
CAGATCACTACATTTAAGGCATTAGAACTTTTTAAAAGTTATCTTAAAAATATACATAAAATTTGAACAACTTA
AAAATTGAACTAATTTCTAAAATATATCCTATAATTATATAATACACAGACATTTGTTACCATCTAAGCATTTTG
TATATGAAAAAATTATGCAATTTACAAGAAAATATTTTACAAAATAATCTGGAATACTTGCTAAAGCTGTATAAA
AAGTATACTAAATTTTAGGCTGGGCGCAGTGGTTTCATGCTGTGAATCCAGCACCTCGGGAGGCCAAGGTGGGCA
GATCATTTGAGGTGAGGATTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTGTGAATTAATAAATAACAA
AAATTAGCCAAGTGTGGTGGCATGCGCCTGTAATCCAGCTACTCGGGAGGCTGAGTCAGAAGAATTGCTTGAAC
CCAGGTGGTGGAGGTTGCAGTGGGTCAAGATTGCACCACTGCACTGGCACGGAGAAGCGAGACTCCTTTGGGGGA
GAAAAAACATACTCAATTTAAAAAATTTAATCTATATTTGACAATGTAGCCTAAGGTGCCCATAGTTGATACA
TCATTATAGGGCAAGTGAATTTCTAGATTAATTTCTGAACAGAAATAAGATTAAGCTGTAAATATATTTAGACTT
TTCAGTGCCTGATCTTGAATATCAGTTTCTTTTGGAAAGGAGAAAATGCAACTTTCTGGCCACTGTTAACAAC
GCAATCTAAAATTTTTTACATCAAATATTGTAAAAAGTTAAATTTCCAAGACAAAGACCAAGAACAGTATCATT
CTTTGCAAAGGAAAGAAATATAAGAATACAACTTAAATTTAACCTGTGGATCTGAAATATAAAATGTTATTAAA
AATAAATTAATGTTAAGGCTAGAACTGAAGATTATAGTAACCGGAACAATTATAGCCATTTATTGCAAAGTTGG
AAGATATCAAGCTTAGTAACATTCTGTTCAATTTGCATAAATGTCATGCAGAACAAATAACAAGTAGCACTGTTGAA
AAATATAGACATTTATTATAAAATCAATTGGTTTGATAAGAAAGCAATTATTTAAAAAGTTTAAATACAAATACAT
GTTAAGTGACAAATTAGGATTCTTTTGGGCAACAAGTTGTTATCTAAAGAAGAAGCAAAACCTCCTTAACAGT
TGTAATAAACCTATGCCTGAAAAGTTGGTGGCTATTAATAAAA

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FIGURE 1694

MNKRRLLYPSGWLHGSPDMQGLLFSTLLLAGLAQFCCRVQGTGPLDTPEGRPGEVSDAPQRKQFCHWPCKCPQQ
KPRCPPGVSLVRDGCCKICAKQPGEICNEADLCDPHKGLYCDYSVDRPRYETGVCAYLVAVGCEFNQVHYHNG
QVFQPNPLFSCLCVSGAIGCTPLFIPKLAGSHCSGAKGGKSDQSNCSEPLLOQLSTSYKTPAYRDLPLIWKK
KCLVQATKWTPCSRTCGMGISNRVTNENSNCMRKEKRLCYIQPCDSNILKTIKIPKGKTCQPTFQLSKAEKFVF
SGCSSTQSYKPTFCGICLDKRCCIPNKSMMITIQFDCPNEGSKWKMLWITSCVCQRNCREPGDIFSELKIL

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FIGURE 1695

GGGCTGCGGTACGGCGTGTGGTCCCAGCGGTTAGCTGAGGTAGGGACGTGCTGTAGGCCGGAATGTTACCGGC
TGTTGGATCTGCGGATGAGGAGGAGGATCCTGCGGAGGAGGATTGCTCTGAATTGGTTCCTATGGAGACGACGCA
AAGCGAGGAGGAGGAAAAGTCTGGCCTCGGCGCCAAGATCCCAGTCACAATTATCACCGGGTATTTAGGTGCTGG
GAAGACAACACTTCTGAACTATATTTTGACAGAGCAACATAGTAAAAGAGTAGCGGTCAATTTAAATGAATTTGG
GGAAGGAAGTGCCTGAGAGAAATCCTTAGCTGTCAGCCAAGGTGGAGAGCTCTATGAAGAGTGGCTGGAACCTAG
AAACGGTTGCCTCTGCTGTTTACGTGAAGGACAATGGCCTTAGAGCTATTGAGAATTTGATGCAAAAGAAGGGGAA
ATTTGATTACATACTGTTAGAGACCACTGGATTGGCAGACCCAGGTGCAGTGGCTTCTATGTTTTGGGTGATGC
TGAATTAGGGAGTGATATTTACCTTGATGGTATCATAACTATTGTGGATTCAAAATATGGATTAAACATTTAAC
AGAAGAGAAACCTGATGGCCTTATCAATGAAGCTACTAGGCAAGTTGCTTTGGCAGATGCCATTCTCATTATAA
AACAGACCTGGTTCCAGAAGAAGATGTAAAGAAATTAAGAACGACAATTAGATCCATAAATGGACTAGGACAAAT
CTTAGAAACACAAAGATCAAGAGTTGATCTCTCTAATGTATTAGATCTTCATGCCCTTGATAGTCTCTCTGGAAT
AAGTTTGAGAAAAAATTCAGCATGTGCCAGGAACACAACCTCACCTTGATCAGAGTATTGTTACAATCACATT
TGAAGTACCAGGAAATGCAAAGGAAGAACATCTTAATATGTTTATTCAGAATCTCCTGTGGGAAAAGAATGTGAG
AAACAAGGACAATCACTGCATGGAGGTCATAAGGCTGAAGGGATTGGTGTCAATCAAAGACAAATCACACAAGT
GATTGTCCAGGGTGTCATGAGCTCTATGATCTGGAGGAGACTCCAGTGAGCTGGAAGGATGACACTGAGAGAAC
AAATCGATTGGTCTCCTTGGCAGAAATTTAGATAAGGATATCCTTAAACAGCTGTTTATAGCTACTGTGACAGA
AACAGAAAAGCAGTGGACAACACGTTTCCAAGAAGATCAAGTTTGTACATAAAGTACTAGAGGCATTTCTTATCAA
AGGATTGGATAATAAAAAATAAGTTTCTACTGGGTATATTTCAAGCATTATTTATTACTTTAGTTACGAATTCCA
ATATACTTTAAATGGTATTTGTTTTACAGCATACATAAAATGTAGCAAATCAGTACTGTAAACATTTAACATT
CATACAGTTATATATAATATCCTTTTTTTTAAAGAATGGTATTTACAAAAATATCTTTTGAATTGGCTTTGGA
GTTTACATATACTGAACATGAAAGTTTATAATAATGATGATACAACCTTCAACATTGTCATTTTTCTTAGAACT
TCAGCTGATTGCAGAGATATAATGATTACATTGTTATTAAATTTTTTAAACACAAGTAAGTGTACCATTTTATG
ACATGAAATAAAAGGTTATGACTGTTATCG

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FIGURE 1696

MLPAVGSADEEEDPAEEDCPelvPMETTQSEEEKSGLGAKIPVTIITGYLGAGKTTLNLYILTEQHskRVAVIL
NEFGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNGLRAIENLMQKKGKFDYILLETGLADPGAVASMF
WVDAELGSDIYLDGIITIVDSKYGLKHLTEKPDGLINEATRQVALADAILINKTDLVPEEDVKKLRTTIRSING
LGQILETQSRVDLSNVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMFIONLLWE
KNVRNKDNHCMEVIRLKGLVSIKDKSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLLGRNLDKDIKQLFIA
TVTETEKQWTTTRFQEDQVCT

CAGGGCTGGCTTTTTTTTTTTAATAAGATAGCTGGTGCCCAAGATTGTTTTCCACCTTAAGGATAAAACCTGTT
AAGAAAGCCTGAACAATTACAAAAAGGAAGAAAAGGAGACTTGGCCAACTGGTGTGAGGAGCTTAAACAAGGTC
ATAGTTTGCCAGCCCTGCCCTAAACAAATAATTCTTGAATGCCTACTGTGGTGTGTAAGATATGAGTAAATACC
AGGGATACACAGAGAACAAAAGAGAAAACTGCTATTCTTGTGAACTTGGAAAGTTGGAGGAGACTTGGAAAGATG
CAGAACTGGATGACTACTCATTCTCATGCTATAGCCAGTTGGAAGTGAATGGATCGCAGCACTCACTGACCTGTG
CTTTTGAGGACCCAGATGTCAACACCACCAATCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCC
TGAATTTGAGGAACTACAAGAGATATATTTTCATCGAGACAAAGAAATTTCTTACTGATTGGAAAGAGCAATATAT
GTGTGAAGGTTGGAGAAAAGAGTCTAACCTGCAAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTT
TTGACCTGAGTGTCTATCTCGGGAAGGAGCCAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGA
AGTATGTAAAAAGTTTTAATGCACGATGTAGCTTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATT
TATCCAGCACAAAGCTGACACTCCTGCAGAGAAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCA
TCCCTGATCACTATTTTAAAGGCTTCTGGAGTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATA
ATAGCTCAGGGGAGATGGATCCTATCTTACTAACCATCAGCATTTTGAGTTTTTTCTCTGTCTGTGTTGGTCA
TCTTGGCCTGTGTGTTATGGAAAAAAGGATTAAAGCCTATCGTATGGCCAGTCTCCCCGATCATAAGAAGACTC
TGGAACATCTTTGTAAAGAAACCAAGAAAAAATTTAAATGTGAGTTTCAATCCTGAAAGTTTCTGGACTGCCAGA
TTCATAGGGTGGATGACATTCAGCTAGAGATGAAGTGAAGGTTTTCTGCAAGATACGTTTCTCAGCAACTAG
AAGAACTTGAGAAGCAGAGGCTTGGAGGGGATGTGCAGAGCCCCAACTGCCCATCTGAGGATGTAGTCATCACTC
CAGAAAGCTTTGGAAGAGATTATCCCTCACATGCCCTGGCTGGGAATGTGAGTGCATGTGACGCCCCATTCTCT
CCTCTTCCAGGTCCCTAGACTGCAGGGAGAGTGGCAAGAAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCC
TTGGGACTACAAACAGCAGCTGCCCCCTCCATTTTCTTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTC
AGGGTCAGCCCATTCTTACTTCCCTGGGATCAAAATCAAGAAGAAGCATATGTACCATGTCCAGCTTCTACCAA
ACCACTGCAAGTGTAAAGAAACCCAGACTGAACTTACCGTGAGCGACAAAGATGATTTAAAGGGAAGTCTAGAGTT
CCTAGTCTCCCTCACAGCACAGAGAAGCAAAATAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACAT
TGCTTTGACCACTCTTCTGAGTTCAGTGGCACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATT
GGTCACAAGGTTTAAAGGTGACCCAATGATTGAGCTATTTAAAAAAGAGAGGAAAGAAATGAAAGAGTAAAGGAA
ATGATTGAGGAGTGAGGAAGGCAGGAAGAGAGCATGAGAGGAAAGACAGACAGGAAAATAAAAAATGATAGTTGC
CATTATTAGGATTTAATATATATCCAGTGCTTTGCAAGTGCTCTGCGCACCTTGCTCTACTCCATCCTGACAATA
ATCCTGGGAGGTGTGTGCAATTACTACGACTACTCTCTTTTTATAGATCATTAAATTCAGAACTAAGGAGTTAA
GTAATCTGTCCAAGTTGTTTACACAGTGAAGGGAGGGGCCAAGATATGATGGCTGGGAGTCTAATTGCAGTTCCC
TGAGCCATGTGCCCTTCTCTTCACTGAGGACTGCCCAATTCTTGAGTGCCAAACGTCACTAGTAACAGGGTGTGC
CTAGATAATTTATGATCCAACTGAGTCAGTTTGGAAAGTGAAGGGGAACTTACATATAATCCCTCCGGGACAA
TGAGCAAAACTAGGACTGTCCCCAGACAAATGTGAACATACATATCATCACTTAAATTAATAGGCTATGAGAA
AGAAAGAGGGGGAGAAACAGTCTTGCGGGTGTGAAGTCCCATGACCAGCCATGTCAAAGAAGGTAAAGAAGTCA
AGAAAAGCCATGAAGCCCATTTGATTTTCAATTTTCTGAAAATAGGCTCAAGAGGGAATAAATTAGAACTCACA
ATTTCTCTGTGTTGTTACCAAGACAGTGATTCTCTTGCTGCTACCACCAACTGCATCCGTCCATGATCTCAGAG
GAACTGTGCTGACCTGGACATGGGTACGTTTGACGAGTGAGAGGAGGCATGACCCCTCCCATGTGTATAGAC
ACTACCCCAACCTAAATTCATCCCTAAATGTCCCAAGTTCTCCAGCAATAGAGGCTGCCACAACTTCAGGGAG
AAAGAGTTACAAGTACATGCAATGAGTGAAGTGAAGTGTGGCTACATTCTGAAGATATACGGAAGAGACGTATTA
TTAATGCTTGACATATATCATCTTGCCCTTCTTGCTGCTAGACTGACTTCTAATGACTAACTCAAAGTCAAGGCAA
CTGAGTAATGTGAGCTCAGCAAGTGCAGCAAACCATCTCCACAGGCCTCAAACCTGGCTGTTACAGAAC
CACAAGGGCAGATGCTGCACAGAAACTAGAGAAGGGTCATAGGTTTATGGTTTTGTTTGAGATTGTTGCTA
CTGTTTTCTGTTTTGAAATTTCTTCTTTGTTCTGTTTTTACTTTATTTAGGGGGACTAGGTTTCTGATATTT
TAGTTTTCTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
GGCTTAAAGGACTGGTAAATCAGACCATCTATTCTTCAGGTGAATGTTTTACTTTTCAAAGTGCTCTCCTCTG
CACCAGCAGTAATAATAACAATGCCATAATCCCTTAGGTTTGCTTAGTGCTTTTGCAATTTTCAAAGCACTTCCA
TAAGCATTCTTCCACCTCCTTGATAGGCATTATGGAAAGCCTGCTACATGTCAATCATACTGTTAGGCACAGG
GGACCTAAAGACACATAAAAGGATGGCATTCTGCCTCATAAATGCAAAACCTAATGAAAGTGACTGCTTGGTAA
ACAAATTATTATTATATTATAAAATGCTATAAAAGAGCCATATTGAAAGTGCCCTGTTGGAGACAGGGCAAATGC

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FIGURE 1697B

CACAAAAATGATGTAAATTTACATGGAGGAAAAGTAGAATCTGCCTGGTTTGTAGGCAGCAGAAGACATTTTCA
TCAGTGGGCAGGTGTTCTTTACCTTTTGTAGAAATGGGAGTCAAGTCTCAAATAGGAGGCTCCACAAAATCTCAT
GCCAGGTCTCTGATACCTTATTCACAGAAGTCTTTGAAGTATTTATTGTTATTTCTTTGACTTATGGGAAAAC
TGGGACACAGGAAGACAGGTAAATTACCCAACCTCACACGTTAAGTCAGAACTGGGAGCCATAATTTGTATCCC
TGGTATAAATAGACAATCTCTTGAAGAAATGAAGAGATGACCATAGAAAAACATCGAGATATCTCCAGCTCTAAA
ATCCTTTGTTTCAATGTTGTTTGGCATATGTTATCTTTGGAATTTAGTGTCTGAGCCTCTGTCTGTTACTGTAGT
ATTTAAAATGCATGTATTATAATCATATAATCATAACTGCTGTAAATCTTGATTATATACCTAGGGACAATGTG
TAATGTAAGATTACTAATTGGTCTGCCCCAATCTCCTTTTCTAGATTTTATTAGGAAAAAAAAATAAACCTCCTGAT
CGGAGACAATGTATTAATCAGAAGTGTAAGTCCAGTTCTATATAGCATGAAATGAAAAGACAGCTAATTTGGT
CCAACAAACATGACTGGGTCTAGGGCACCCAGGCTGATTCAGCTGATTTCTACCAGCCTTTGCCTCTCTCTTCA
ATGTGGTTTCCATGGGAATTTGCTTCAGAAAAGCCAAGTATGGGCTGTTTCAGAGGTGCACACCTGCATTTTCTTA
GCTCTTCTAGAGGGGCTAAGAGACTTGGTACGGGCCAGGAAGAATATGTGGCAGAGCTCTGGAAATGATGCAGA
TTAGGTGGCATTTTTGTTCAGCTCTGTGGTTTATGTTGGGACTATTCTTTAAAATATCCATTGTTCACTACAGTG
AAGATCTCTGATTTAACCGTGTACTATCCACATGCATTACAAACATTTTCGAGAGCTGCTTAGTATATAAGCGTA
CAATGTATGTAATAACCATCTCATATTTAATTAAATGGTATAGAAGAAC

1876/2682
FIGURE 1698

MHDVAYRQEKDENKWITHVNLSTKLTLQKRLQPAAMYEIKVRSIPDHYFKGFWEWSPSYFFRTPEINNSSGEM
DPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKNLNVSFNPESFLDCQIHRVDD
IQARDEVEGFLQDTFPQOLEESEKQRLGGDVQSPNCPSEDVVITPESFGRDSSLTCLAGNVSACDAPILSSSRSL
DCRESGKNGPHVYQDLLLLSLGTTNSTLPPFSLQSGILTLPVAAQGPILTSLGNSQEEAYVTMSSFYQNO

1877/2682
FIGURE 1699

TTCCTCTCTAGTGATGTGGCACGGTGTCCGTGAGCTTGTGACTGCAGCGATACGCTGCXTTGTGGCGTGTGGGCC
AGGTGGCGACTACAGCAGGGACTGGCTGCCAACCCCTCCGGCTACGGGCCCCCTTACCGAGCTCCAGACTGGTCA
TATGCGGGGGTATGATCCTGCTTAATTGGATAATTGGTGAAGATGGTGAAGATTTTTCTACTTGTTA
TTTACTATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGACGTTTGCAGTGA
GTGAGACGAGTTGTACTGCTGTACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGAAGTTG
CAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCACTTCCAAGTCAA
TAAAAAGCAACTCCTGCCTCCCTTCCTC

1878/2682
FIGURE 1700

CGGGCGAGAAGGGCAGACGGGACATGCAGCCTCTTCGCGCTGAGCCCCGGAAGTGATGTGGCTGCGGCATCGCGG
CCTCGCTATGCTCTGCCATTTTCAATTTTCAGAGTCTATTGACTGTAATCTTGCTGCTTATATGTACCTGTGCTTA
TATTGCATCCTTGGCACCCAGCCTCCTGGACAGAAATAAACTGGATTGTTGGGTATATTTTGAAGTGTGCCAG
AATTGGTGAACGGAAGAGTCCTTATGTTGCAGTATGCTGTATAGTAATGGCCTTCAGCATCCTCTTCATACAGTA
GCTGGGGAAAATGCCAGAAIGTAGTTGCCATCAGATTTGATTGTGAACAAGGACTGACTGCAGAAAATAATGGAA
AGGATGTTTTAACTCTTTTATCTCCGAACATTGAATGAGATAAATTTCCAGATGCTGTTCTCTATTTTAAATGTTAT
TGGACCAATGTTCTGTATAAACAATTAAGATGTAACCATTTAATAGTCTGTAACAATCAACCTCAGTACTGTCAC
TACAATATTACATTCTGCAAATGTTATTCTGTTGTATCAGATACAAAATTTTAGTGAGGTATCTCTAAGGCACAT
AGTAGAAAACAAAATTGGTTAATTACTCAAGTTCCTTTCACTGTGATTGGAAATGATTTAATCTTTATAGAATG
AGAACCTTTTTTGGACTAGCTTTTTTATTAAATGGCTCAATTTGTGTTGATAAGGATTGCATTAATATTTAATA
GTGCTTGCTTTTCTCTGGGCACACCATTTTGATCATTAAACCAGAGTACCTCTACTCTTAGCAAACCTCTAGTTTA
TGACAAGTATTTAAAATATTTAAAACAAGCTTATGCAGTTCTTAAGGACGAAGGTAATGAGATGTAACCTAAAA
ATAGTATTGGGAAAATGTTGATAGTTAACATTAGTGGATTTAGACTAGCCAAATGACATAGTAGGCTCTGAAACA
TCTTGTCAGTATATGTATTTTGTGCATGAATTTTGTCTGAAAGCTGTCTTTCTCTGAAAAACACAACGTTCTT
AGAATGAAAAGAACAAATTATAAAATAAAAAAAAAAATTTAAAAAAACTGGGCGGGG

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FIGURE 1701

MSAIFNFQSLTIVILLICTCAYIRSLAPSLDRNKTGLLGIFWKCARIGERKSPYVAVCCIVMAFSILFIQ

1880/2682
FIGURE 1702

GGGAGAACGCGAGTGTTAGTTAACATGGCTTGGTGTGTGGCCACAGCTGACCCGGCGCATACCTCCCGTCTCTC
TTTACAGGGCTGGCGGTGTCTCGGGGCTCGGCTGGCCATGCCTGGAGCGCGGGGTTTGACTGGGCGCGCGTTGTT
GTAGTGACCGGGAGGCGCTGCCGCTCTGGGCAGACGGTTCCGGGAGCCGCACGGTCCCCCTCTCTTCCCCATCCT
CTCCCCCTCCCCCTCTCCGGGTTCACCCACAGGAGCCTTGGGCGGACCCTCCCCCGATGGCCTCAGCCACGG
AGGACCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGGCA
AGCAACTTGCTACTGCTTCTTGGGATACCTTTCTCATGCTATGGAATTTCAAGCCACATGCTAGAGCTTACAGAT
ATGTGGGTACACAAGGATGTTGTAACCAGCGTGCAGTTTCTCCACATGGAACTTATTGGCGTCTGCCTCAGGAG
ACAGAACCGTGAGACTCTGGATTCTGATAAGAGAGGAAAATTCTCAGAATTTAAAGCTCATACAGCTCCAGTTC
GAAGTGTAAGCTTTTTCAGCTGATGGCCAGTTTCTAGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCA
TGTATCGCCAGCGCTTCTGTATTCTGTATCGACATACACACTGGGTACGCTGTGCCAAATTTTACCCGATG
GAAGACTAATTGTGTATGTAGTGAGGATAAACTATTAAATTTGGGATACCACAAATAAGCAATGTGTTAATA
ACTTCTCAGATTTTCGTTGGATTTGCAAATTTTGTGGACTTTAACCTAGTGGTACATGCATAGCTTTCAGCAGGTT
CTGATCAAATGTGAAAGTCTGGGATGTAAGAGTGAACAAATTACTACAGCATTACCAAGTTTCAGCGGTGGAG
TTAATTGCATATCATTCCATCCTTCGGGTAATCTCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGG
ACCTCTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAG
GTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGCTTATTATGGAGGACTAACTTTGATGAATTGCATT
GTAAAGGTCTTACCAAAGAAATCTCAAAGATTACATTTTGATTACACCACACATCTTCTTGATATCTACCCAA
GAACACCACATCCCCATGAGGAAAAAGTTGAGACTGTAGAAGATTTTTTCTTCATCTTTTGAGATTAATCCAA
GCTTGAGGTTAATCGATTTGCAGATCTCTACTCCCCCTGTTATGGATATCCTTTCTTTTGATTCTACCACAACAAC
AGAAACCAGTGGTAGGACTCTGCCAGACAAGGTTGAAGAGGCTGTGGATATTTCTTGAACCTTCCTTAATGTC
ACCAGATGTTTGCCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCTGTGAAAGTCAAAGGAG
CATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACTCAATGTTTTGACACAGACTGTTTCAAT
CTTGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAAATCAGCAAAAGCTTTTCAGTGC
TGTCCAACAGAAAAGCTGAATAAAAAATTCATTTTCATTTGTTGGGCAGAGGCCCAATAAATGAACAAATGTACA
TACACTCAGGAAGGTAGTACAAGATACTCCATACAACACAACCATGTGCTATTTATCATGGCATTCTTAAAAGG
GTGAGCAACAGAACAAAAGGCAGAAAAGGCATACCTAAGGACTAATTTAAACACATATCAATGTGAAGGACTAAT
TTAAATTACTATCATTTTATGATTGCAGTAATAAAGTGATAAGCATTCAAGCAACTCTGTATTTTCCCATATTAT
TTTAAATGTCCATTTTCATTTATAGGCCAAATCCTGCCAGGAAAGTAACCAGATCTCTGGATTTCACTGTAAAGT
CATTTTCAGATTGACCATATTCAGACAGTCATGGGGTGAAATAATCACTTACCTCCAAAATAGCATCCTATATGC
CAATAATGAGTTATTGATCTGACTAGTTGTAATGCTTTCTGTTCAAAATAGAAATTATCCTTTCTTACTAATGCC
TTGAAAGAATGAACAAATAAAATTTCCAGACCACAGAATTTCCACAGCAAGAATACACTATTTTAAATTAACAA
TAGCACAGATATAGCATAGGGCAGTGGGTTTTTTAGTTAATTTATGGCGTACTTTGTTTATCCATTGGCCAACCT
GAAGGAAATGAAACTCACCTATCTTTCTATCACAGATGAATGTGCTAGATGAATGATTTGGGTGTATCTGATCA
TGGTTACAAAAATTATGTTAGTGTGTTTTAGTATGCTAAAAAGTCAGAGTGATACAAAAGTGATTTTAAAAA
TATACACACATGTATGTACACATGCTTCAGAAATATTGTTGCTTAGGGTGATTGGGCAGCTAAATAGTAAGTAC
TTTTTAAAAATTTTGCATCATCATCTTCTTATTTAATGAATTGTGATTTAAACAAAATGAAAATAAGCCAGGTA
TTCTAAAAGATCCTGGATACAAATTAAGAATTTTGCTTTATTTTAAACCAAATTGAGATTAAATTGAAGAAAAGC
AAGCAAATTAATTTTCAGCTTGATTATCAACCTGTATCAAGAACAAAATGGGAGGAGGTGCCACATTTATGGTG
TGTATAGGTAACATGGGGAAAATGCTATTCTGTGTTTTGGAAAAGAAGAAATAGTGCCGTCCTATTTATTTCTAT
ATTTAGAAATTTTCTCAAAGAAATTTCAATTGTATCTATGAGATGGGTTTCTAAGTATCTTATTGTGTGTTATA
AGTGCCTTTAAATATCATACTAAGTGTGAGCTTCTGGACATTTTCAAGAGCTTACAAAACCTAAGTGCCATTGTA
TTTTTATAACCCATTGAGAAGACTAAGTAAGAAATGAAATGTCCTATCAATTTATTTTGTCTATGCTTCAAACA
ATAAAGACATTTCTGCTTTAAAAGACAAACAAAAA

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FIGURE 1703

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSPHGNLL
ASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGQFLATASEDKSIKVWSMYRQRFLYSLYRHTHWVRCA
KFSPDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDFVGFANFVDFNPSGTCIASAGSDQTVKVWDVRVNKLLQHYQ
VHSGGVNCISFHPSGNYLITASSDGTLLKILDLLLEGRLIYTLQGHTGPVFTVSFSKGGELFASGGADTQVLLWRTN
FDELHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEDFFLHLLRLIQSLR

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FIGURE 1704

GGAATTTCGGCACGAGCCCCGATTCCGCGCCCGCCATGCCGACAAAATGGACATGTCTCTGGACGACATCATTAAA
CTGAACCGGAGCCAGCGAGGCGGCCGGGGCGGGGGCCGCGCCGGGCGGCTCCAGGGCCGGCCGCGCGGTGGG
GCGCAGGCCGCGCGCGAGTGAATCGAGGCGGCGGGCCATCCGGAACCGCGCCGATCGCCCGGGCGCGGGC
GGCGGAGGCGGCAGGAACCGACCGGCGCCCTACAGCAGGCCAAAACAACCTCCCGACAAGTGGCAGCACGATCTT
TTCGACAGTGGCTTCGGCGGTGGTGCCGGCGTGGAGACAGGTGGGAAACTGCTGGTGTCCAATCTGGATTTTGGG
GTCTCAGACGCCGATATTCAGGAACTCTTGCTGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTATGATCGC
TCTGGTTCGAGCTTAGGAACAGCAAACGTGCACTTTGAGCGGAAGGCAGATGCCCTGAAGGCCATGAAGCAGTAC
AACGGCTTCCCTCTGGATGGCCGCCCCATGAACATTCAGCTTGTCACGTCACAGATTGACGCACAGCGGAGGCCCT
GCACAGAGCGTAAACAGAGGTGGCATGACTAGAAACCGTGGCGCTGGAGGTTTGGTGGTGGTGGAGGCACCCGG
AGAGGCACCCGCGGAGGCGCCCGTGAAGAGGCAGAGGTGCCGCGAGGAATTCAAAGCAGCAGCTTTCGGCAGAG
GAGCTGGATGCCAGCTGGACGCCTATAATGCGAGAATGGACACCAGTTAAACAGACCAGCAAATCCGCGTGGG
AACAGGACCCAGGCGTCTCCTCTTGCTCCCTGGTTGGGGGCGGTGGCTGGGGCTGTGCGCCCAATGATGGATTT
GTTTCTTTTATGTTTTAAAATAGGATTTAAAACTCATGTAAAGGTTTTTTTTTTTTTCTTTTTTTTTTTTAAAT
TCTGAAACAGACCTGTTTTGTACCGAGTTATTTTGGGATAAATTTTACTGGTTGCTGTTGTGGAGAAGGTGGCG
TTCCACCTTTTCCATAATAAAATAGAAATGTGTGTAA

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FIGURE 1705

MADKMDMSLDDIIKLNRSQRGGRGGGRGRAGSRAGRRGGAQAAARVNRGGGPINRPAIARGAAGGGGRNRPAPY
SRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKAHVHYDRSGRSLGTANVH
FERKADALKAMKQYNGFPLDGRPMNIQLVTSQIDAQRRPAQSVNRGGMTNRNGAGGFGGGGGTRRGTRGGARGRG
RGAGRNSKQQLSAEELDAQLDAYNARMDTS

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FIGURE 1706

[illegible]

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FIGURE 1707

MGPQRRRLSPAGAALLWGFLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSISLMNLTSTPLCNL
SDIPPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVVNSVLFPPSGNRSEFPDVKILIAFISYKDFRDMNQ
TLGDNITVKMYSWPNFDTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVI
FVVICCVMMVLLYFFYKWL VYVMIAIFCIASAMSLYNCLAALHKIPYQCTIACRGKNMEVRLIFLSGLCIAVA
VWVAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLYDVFFVFIPTFITKNGESIMVELAAG
PFGNNEKLPVVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLIAYCRRFDVQTGSSYIYYVSSTVAYAIGMIL
TFVVLVLMKKGPALLYLVPCTLITASVVAWRRKEMKKFWKGNSYQMDHLDCAATNEENPVISGEQIVQQ

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FIGURE 1708A

GAATTCGGCACGAGTCATGGCGGGGAGCGCGGCTTCCCAGGCCCGCGCTCCGCAGGGCTGCTGGCGTTGCTG
CTGTTGAGAGCGCGCGGGCGCGCAGGCGGGCGGAAGGATGGTGTTCGCGACTGGAGCGGCAGGTGCGGA
CCGGGAGCCGGACCGAGGTTTGGCAGAAGCAACGTGTGCTCGGGAGCAACCGGCGCGGGTGCCACTGAGGCAGCG
GAGGGAGGCAGGATCGACTGACGGGCGAACGGACGGACGGAGGCGACTCGAGGGCCGGCCCCGGAGCCGC
GCCGTGGGCGAGATCGCGGGGCGCGCGGCTTGGCGGGAGGCTGCTGCTGCTGCTGCTGGTCTCTGATCGCC
GGCAGTGCTGGGGCGCGCCACTTCCGCAAACAGGTGCAGGGGAGGCGCCACCTGCTGCAGAAGTTTCCTCATCT
TTTGATCCTGTGTGTGTGCAGTTTAATAATATTAATAGTGTTAATTGCAAACGTGTGTATCCTGCTGTAAGGAC
CCAGAAATAGACTTTAAGGAATTTGAAGATAATTTTGATGATGAGATAGATTTACACCACCAGCAGAAGACT
CCCTCTGTTTCACTCCCCAGCAGAGGTCTTCACACTTTCAGTACCAAATATTTCCTCCAGCTCCCTCGCAATTC
CAGCCTTCTGTAGAGGATTGAAGTCTCAAGTTGCCGCGCACAGTCTAACTACATACAGGAAATTGGAATGGC
TGGTTTGGAAAGGTTCTCTTGGGAGAGATTACACGGGCGACTAGCGTAGCAAGAGTCATCGTGAAGGAGTTAAAA
GCAAGTGCCAACCCAAAGGAACAAGATACTTTTTTGAAGAAATGGAGAACCCTTACTACATTCTTCAGCATCCAAAT
ATTCTTCAGTGTTGGACAGTGCGTAGAAGCGATTCCCTACCTCCTGGTGTGAGTTCTGTGACTTGGGTGAC
CTGAAGGCGTATCTGCGCAGCGAGCAGGAGCACATGCGGGGGGACTCACAGACCATGCTGCTGCAGAGGATGGCG
TGCGAGGTGCGCGGGGCTGGCCGCCATGCACAAGCTGCATTCTCTGCACAGTGATTTAGCCCTGCGGAATTGT
TTTCTCACCTCCGACTTAAATGTGAAAGTGGGAGATTACGGAATAGGATTCAGCAGGTACAAGGAGGATTATATT
GAAACAGATGATAAAAAAGTTTCCCTCTGCGATGGACTGCTCCAGAATTAGTAACCAGCTTTCAAGACAGACTG
CTAACTGCAGATCAGACTAAGTATAGTAATATCTGGTCTCTGGGTGTGACACTTTGGGAGCTTTTTGACAATGCC
GCACAGCCGTATTCAAACCTTTCCAACCTTAGATGTCCTCAACCAAGTCATTAGAGAGAGAGACAAAACTCCCG
AAGCCCCAGCTGGAGCAGCCCTACTCTGATAGATGGTATGAAGTCTTACAGTTCTGTTGGCTGTCAACAGAAAAG
AGACCCGCGGCTGAAGATGTGCACAGGCTGCTGACTTACCTGCGGCTGCAGAGCCAGCGGGACTCAGAGGTGCAC
TTTGAACAGCAGTGGAACGCTCTGAAGCCGAACACAAACAGCAGAGACTCCTCCAACAATGCTGCATTCCCAATT
CTCGACCACTTTGCCAGGGACCGGCTGGGTCTGAAATGGAGGAAGTCTCACCGTGACCGAAACCAGCCAGGGC
CTGAGCTTCGAGTATGTCTGGGAGGCGCTAAGCACGACCCTTTGACGAGCGCAGCCGGGGCCACCTGGACGAA
GGCTTGCTTACACGAGCATCTTCTATCCGGTTGAAGTTTTTGGAGGTTTCGCTTTCAGATCCTGGGCCCGGAAAG
CAAGATGACAGCGGCCAGGATGTCCCTGAGGGTCCCTGGAGTGGTTCTGTGTTTGTGAGTCCCAACCTTTCT
GTTGGAAGCGACTATTATATCCAGTTAGAAGAAAAAGTGGTAGTAACCTGGAGCTTGATTACCCACCAGCGCTG
CTCACAACCGACATGGATAATCCAGAAAGGACTGGCCCTGAAGTGTCCAGCTCACGGCGCTCAGGAGCGTTGAA
CTTGAGGAGTCCAGTACAGATGAGGACTTCTTCCAAAGCAGTACAGACCCCAAGACTCTAGCTTACCAGGGGAC
TTACACGTGACAGTGGCCCCGAGAGCCCTTTCAACAATATATTTAATGATGTGGACAAATCGGAAGATTGCCC
AGTACCAAAAAATATTCGACTTAATGGAATTAACGGAGTTCAAGCCGACTTTAAACCTGCCACTTTAAGTTC
AGTTTGATAACCCCAAGAGTCACTATAACAGGCCACTTTGAGAAAGAAAAGCCCCGTAAGATTTTGTACAGT
GAGCCTCTCTGCCTATCAGATAATCTTATGCACCAAGATAATTTTGATCCATTGAATGTTCAAGAATTGTGAGAA
AACTTTTATTTCTTCAAGAGAAAACTTACTAAAAGGCTCATTGTCCAGCAAAGAACACATAAATGATCTTCAG
ACAGAACTTAAGAATGCTGGTTTTACTGAAGCTATGTTAGAAACGTATGTAGAAACTCTTTAGATACTGAGCTT
CAGTTTGCTGAAAATAAGCCAGGCTTGTCTTTGTTGTCAGGAAAACGTAAGCACAAAGGGTGACGATACAGATGTC
ATGCTCACAGGTGACACTTTGAGCACCTCATTGCAGTCTTCCCCGGAAGTGCAGGTACCTCCTACCTCCTTCGAA
ACAGAAGAAACGCCCCGTGGGTACCCCCAGACTCACTCCCAACACAGGGAGAAACCCAGCCACGTGTTTAGAT
GTTATTGTCCCGGAGGACTGTCTCCACCAGGACATCAGTCCAGACGCTGTGACTGTCCCGGTTGAAATCTCTCA
ACTGATGCCAGAACCCACAGCCTGGATAACAGGTCCCAGGACTCTCCTGGCGAGAGTGAGGAGACCTGCGACTC
ACCGAAAGTGACTCTGTTCTTGTGTGATGACATCCTTGCCAGCAGGGTGAGTGTAGGGAGTAGTCTCCCGGAAGT
GGACAGGAATTGCACAATAAACCATTTTCGGAAGACCATCACAGTCATCGCCGGCTAGAGAAAACTTAGAGGCT
GTGGAGACTTTAAATCAGCTCAATTCTAAAGACGCAGCAAAAGAGCAGGCTTGGTGTCTGCCCTCTCCTCGGAC
TCAACCAGTCAGGACAGCCTCCTGGAGGACAGCTTGTACAGACCTTCCAGCTCTGAGCCGTCCCTGGAAAC
CCGGACTCTCTGGAGTCAGTGGATGTCCACGAAGCGCTACTGGACTCTTTAGGATCTCACACTCCCAGAAACTA
GTGCCCCCGGATAAGCCGGCAGACAGTGGCTACGAAACAGAGAACTTGGAGTCTCCCGAGTGGACCTTGCATCCC
GCTCCCGAGGGCACCAGACTCAGAACAGCCACCACGGCGATGGCGGCCACAGCGGTCTGCCCTCCCAACCCG
GTCATTGTCATCTCAGATGCCGCGATGGTCACAGAGGCACAGAAGTGACCCCTGAGACGTTACAGCTGGCTCC

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FIGURE 1708B

CAGGGTTCATACCGAGACTCTGCGTACTTCTCAGACAATGACTCTGAGCCCGAGAAAAGGTCTGAGGAGGTCCCG
GGAACCTCCCCATCCGCTTGGTGTGGTACAGGAGCAGCCCCCTACCCGAGCCAGTCTCCCCGAGCAAAGTCTCT
GCTGCCCAGGATAGCTGCCTGGAAGCCAGAAAGAGCCAGCCAGATGAAAGTTGTCTGTCTGCTTTGCACAACTCC
AGTGACCTGGAATTAAGAGCCACGCCGAGCCAGCACAGACTGGTGTTCCTCCAGCAGGTGCATCCACGGAAGAC
GAGGCCAGCAGTCCCTGGAGTGTGCTGAATGCAGAACTTAGCAGCGCGATGACTTCGAGACACAGGACGATCGC
CCCTGCACCCTCGCTTCCACGGGGACCAACACGAACGAACCTCCTTGCCTACACCAATTCTGCGCTGGACAAGTCC
CTGTCCAGCCACTCCGAGGGCCGAAGTTGAAGGAGCCGACATCGAAGGGAAGTACCTGGGGAACTCGGGGTG
TCAGGGATGCTCGACCTCTCAGAGGACGGGATGGATGCAGACGAGGAGGACGAAAACAGCGACGACTCGGACGAG
GACCTGCGGGCCTTCAACCTGCATAGCCTCAGCTCCGAGTCCGAGGACGAGACCGAGCACCCCGTGGCCATCATC
CTCAGCAACGAGGACGGAAGGCACCTGCGGAGTCTGTTGAAGCCACAGCGCCAATGCCCCGACCCACTGCCC
GAGGACTGGAAGAAGGAAAAGAAGGCAGTCACGTTTTTCGATGATGTACAGTCTACCTGTTTGACCAGGAGACC
CCAACCAAAGAGCTGGGGCCCTGTGGAGGAGAGGCGTGCAGCCCGGACCTGAGCGGGCCAGCCCCAGCCTCAGGC
TCTCCCTACCTGAGCAGGTGCATCAACTCCGAAAGCTCCACCGACAAGAAGTGGTGGCTTTGAGTGGGATGAT
GACTTCTCCCCAGATCCTTTTATGTCAAAGACAACAAGTAACCTGCTCAGCTCCAAGCCTTCTCTCAAACATCC
AAGTACTTTTCTCCGCCGCCACCGCCCCGAGCACGGAGCAGAGCTGGCCGCACTCGGCGCCTTACTCCCGGTTT
TCCATCTCTCCGCCAACATTGCCAGCTTTTCCCTCACACACCTGACCGACTCGGACATCGAGCAGGGCGGAAGC
AGCGAAGACGAGAAAAGGACTAGGTGGCTGCCAACGCGCACGCTCGGGTCCGAGGCTGCTCCCTGGAGCGGGC
CCCCTGCGCCCTCAGCCCGAGCAGCGACATCCACTCGCCATTTGCTGACATGAGATTGGGAGGAAGAATCCAGAG
GTGAAGAGGGAGACGGCTCTTAGCTGCGTTCAAGCGGGGGCCCTCGGGAGCCAGGTGCAGAGCGAGGCCGTGTC
CAGGAGCCGGCGTCCCTCAGTCCCCGTCACCCGCGGCGCGGCTCCAGGCAGTGTCTATGCGCTGGCCGTCT
GGGGGAGGCAGGGGCACAGCCTCCATGTGCGCGCGGTGTGGAGCTGTGTGCACCGCATGTGTGCTTTCCACAGG
GGCGTCTCTGCGTCCACGCTGCACATCCCGGCGCACGTGTGGGCACCACAGAGGACACGTGAGGGGAATGGTCA
CCAGTGAGCCATATTTATTATTCTAGAGAAATCACGAACCTGCTTTCTGTAATTGCACTGTGGATAAATGTTCCG
AGAGTCTCCATTGTTGTACAGGATCTTCAGTTATTCGAGGGGAATGAGGCAGGTCAAGCCGATGCTAGCCACTAG
TTTGATTTTTTTCTGTTTTATAGTTTGCGCTGCATGGTACTTGTGAAGCTTAAATATTTTGAGTGTCTACTGT
GTCTAGGATTGTTGGGATTGTACATAAGGTACTCTTTCATAAATGATAAATGATTCTGAATGTTAGTGTTTATG
TTCATATAGGAAATATTTTCATTGAGTCCAAAATACCACTGTTTTGTTGATGGACTTGAATGCATTTTTGTCTCT
TCTTGATGAAGCGGCTTTGCCGACGCAAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTGCAGCCTCTCCTTG
TCATTCTCCACCCACATCCCATTTTTTAAAGCCCTTTTGGTAAAAACCAACAGGTTGTGGCCGACAGCCTCAG
ATGGACCCGGCCCATCCCTGGGGACGTGCTGGCGTGGCAGGTCCAGAGAGCTGCACCTGCACGGGGCACCGCAC
CGCTTCCCTCCGCGCAGCTCTTCTGCGTGGTTTTTCGGAGGCCAGGCTGCTGGGAGGCTTCCGTGTTCTGTCACT
CCTTCTTCAAGAAGCCGGGGAACCTCAGGCAGACTCATCTCCGACAGCATAACAGCCGTGGGGGACCGTTCCGAC
TTGATGATGTGTGCACACTTCAGGTGGTGGGGACTTGAGCTTTAAAAAACCTCCACAGCCGAATCTTCTCTCTC
GAGCCACTCCACGTACGTCCAGCTGGGCTGGCCAGTCTGTGGTTATCCATGTGGGATGAGATAACACCACATC
CTGCAGCTGTGAAGGGGATGGACAAGGGACGACGGCCGACGGCAGAGCATCAGCAGCCGACACATAGTTCCGGT
CGGGGCCCTTGGGTGGTCTGCTGATGGCCCGGACTCATCTCACGGACCTCCGTCTGCTAATTAAGCCCCAGGTTCT
CTTCTGCTTTTGAAGGGCCCCGAGTGTCCAGTGTAGCTTCGTACATCGTCACGAGCCCTGTGGTCAATGGGC
GACCTCACACCTCCCTCCCTGAGTCTGCTCTGACATAAGGAAGTCTCGGTGGCTGGTGCAGCGCGGCTGTGCT
GTGCTGGGGAGGCAGCCGTTCCCTTGGGGGTCTTGGGCTGCAGTCCCTCATACTACCCCTCACCCCAACATA
TTTTCCGGTGCTGATATGTTTCCAGACTCCAGCGCAACCTGGGGTGCTCTCCAGACCCGTGCAGGGGCGCCCTGG
GGTACACGGAAGGAAGTTGAGTCTAGTGCAAAATGCAGGCGGACGTTGCCAGAGAGTGCGCAGCAAAATGACCTT
CATTGCCAGTTCCACCCTACTCCTCTCATTTTTTATACTAAGCAATAACTTTCCAAAGCAAGAAGTTCAGGATGG
AGAGAGTCCCTCCTGTGTAGGCATGGGTGGACGCGGTGCCACCTGGGCTATGTGGGGAGCACCCTGTCTCG
GGAATGCGCAATTTTTTTTTTTTTTAAATTAACAGGGCATTAGAAGATGATTTTGCCAAAATTGTCATGACTCTG
AATTCTGTGTGGGGACTTCCTGAGTTTTCTCAGTTTTTACATCTAAGATTAGTCTTGGCTGAAGAGAAATGAG
ACGTGATTATACTACTTTTTCAATTGCAGGTTAAGGAGTTCAGATTTAATGACCAAAGTCATACAGATCATGGA
ATCTGTGCTGCTTTATACAGTGTGAGCCTCGAGTACATTTTAACTTTTGGGGCTGTGAGTTTTCCACTAGG
ATTAAGATTTTGGCCGGGCGCGGTGGCTCACGCTGCAATCCCAACACATTGGGGGGTTCGAGGCGGACGGATCAC

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FIGURE 1708C

TTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAATATATA
TATATATATATACTAGCTGGGGCACATAGTGGTGTGCACCTGTAGTCCCAGCTGCTTGGGAGGCTGAGGTGGGAG
GATGGCTAGAGCCCAGGAGATGGGTGTTGCAGTGAGCTGAGACCATGCCACTGTACTCTAGCCTGGGTAAACAGCC
AGACCCTGTCTCAAAAAAAAAACAATTTTTTTCATAACATAATTCCCATTTTTATTTATTTTGTAGTCACTCATAA
TTAATTGCCAAAAAGCATTTTATACATTGAGTTGGGGGGTAGTGGATCTTAGTGTGGTGTTCATGGAGGGGCG
AGATTTTATATTTATAATCAACACGTGGGTAAACATGTTTTTTTGAATCCAAGCAATACACAGGAAATTTAAGT
AGAATAAAAATTGCAGCCCATTTTTGAAATGTCAGCATGTGCTGTGTTTCAAGTTTGTGTTTTGTTTTG
TTATTTTTTAATAAAGTTGGTTATCAGTGGTGGGTTTTCAAATGTACTTGTTCATAAAGTTGTACAATGA
ACTAAATCAGTGGCATTCTCTAGATAATGTGGGGGAAGGTTAGAATATTTTCTGGCCTTCTATGGGGTAGCAACC
CAGAATCAATCTGAATTAGTCCTGTTTTGGTGGAGTTGTACATTTTAAATCCTATAACAAAAATAATCTAGTTT
TCATTTCCCTTACTAGCTAGATGCGAATTTGTCTTTTTGAATGACCTGTCAATAAGCCAGAAAGGGCAACCCAGA
AAAAGTGCTCCCCACATCCTTCTGAGACTTGGCCTGTGTGTGTGGACGAGAAGCCATTACCCGTAGGGGTGCAGA
AAGCTCGACCAAGCCGAATTGCAAACAACGTTCTTCTATTTTTAAATGTACAGGTTTCGATCGTTTTCTATAGAAA
TGGGTTTATCTAAGAAAAGTCTTGGTTTGTCTTGTCTGTAAAAGGCCTTTCCAAACCCCTCCTTTTATTCCTG
TTTCCCGAAATAAGGTATTTGTAGAGTTAAGGACCTACTGCATGCCTGTCCCCAGGGCCCCGGTGGGAAGGAAGGC
AGCGCCTGCTCTTCTTGAATCAGCCCATCATCTGAAAATTCAGAAGTGAACCAAGGGTTAGACGCCAGAGGTTG
GGCTTCTGTTAGAGTGGCTTCAAACATGAGCCTTATGGGAAGTAGCCTTAAAAAAGAATGGGTATACGCAGTG
ACTTCCGATGGAAATCTCCAAACAATATTCCTAAGTAGCAATGGGGTTGGCTCAAGTCTTTATTAACAAAGAAC
ATTCTCTTTCATCTATAAAGAAATCTTAAAGATGCATTGACAGTGTGAATTACCAACAGCCTGTGAAGATCAG
TTTGACCGGTGTGGACACGTGCTGGTTAAGCACTCAGGCCTACGTGGGCCGAGCGGGATCTTGATCATGGGGCTG
GTGTATGGATCCACCGTCGGATTCCGTCTGCAGAGGAGGACGTAGGGGGCCGTACACCCACCAGGCCTCCCTGC
TGTGCTTTAACACAGGCAGAAGAGGTTTCATGGCAATATAATAGTCAATGAACTTTCAGTTTAAATTGTGTACATT
TTTAAATTGTAAGATTTTTACTGTATATTGATGCATAGTGTGATTCAATAAATTGCTTGTAAATTTAAAAACTATT
TAATATTCAAATAAATATAGTTATATATTTATAAAAAAAAAAAAAAAAAAACTCGAG

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FIGURE 1709

MPGPPALRRRLLLLLLVLLIAGSAGAAPLPQTGAGEAPPAAEVSSSFVILCVCSLIILIVLIANCVSCCKDPEID
FKEFEDNFDDEIDFTPPAEDTPSVQSPAEVFTLSVPNISLPAPSQFQPSVEGLKSQVARHSINYIQEIGNGWFGK
VLLGEIYTGTSVARVIVKELKASANPKEQDTFLKNGEPYIILQHPNIIQCVCVQCVEAIPYLLVFEFCDLGDLKAY
LRSEQEHMRGDSQTMLLQRMACEVAAGLAAMHKLHFLHSDLALRNCFLTSDLNVKVG DYGIGFSRYKEDIETDD
KKVFPLRWTAPELVTSFQDRLLTADQTKYSNIWSLGVTLWELFDNAAQPYSNLSNLDVLNQVIRERDTKLPKPQL
EQPYSDRWYEVLFQFCWLSPEKRPAAEDVHRLTYLRLQSQRDSEVDFEQQWNALKPNTNSRDSSNNAAFPILDHF
ARDRLGREMEEVLTVTETTSQGLSFEYVWEAAKHDFDERSRGHLDEGLSYTSIFYPVEVFESSISDPGPGKQDDS
GQDVPLRVPGVVPVFDHNL SVGSDYYIQLEEKSGSNLELDYPPALLTMDNPERTGPELSQTLALRSVELEES
STDEDFQSSSTDPKSSSLPGDLHVTSGPESPFNNIFNDVDKSEDLP SHQKIFDLME LN GVQADF KPATLSSSLDN
PKESVITGHFEKEKPRKIFDSEPLCLSDNLMHQDNFDPLNVQELSENFLFLQEKNNLLKGSLSKEHINDLQTELK
NAGFTEAMLETSCRNSLDTELQFAENKPGLSLLQENVSTKGDDTDVMLTGDITLSTSLQSSPEVQVPPTSFETEET
PRRVPPDSLPTQGETQPTCLDVIVPEDCLHQDISPDAVTVPVEILSTDARTHSLDNRSQDSPGESEETLRLTESD
SVLADDILASRVSVGSSLPPELGQELHNKPFSEDDHSHRRLKLEKNLEAVETLNQLNSKDAAKEAGLVSA LSSDSTSQ
DSLLEDLSLAPFPASEPSLET PDSLESVDVHEALLDSLGSHTPQKLVPDPKPADSGYETENLESPEWTLHPAPEG
TADSEPATTGDGGHSGLPNPVIVISDAGDGHRTGTEVTPETFTAGSQGSYRDSAYFSDNDSEPEKRSEEVPGTSP
SALVLVQEQLPEPVLPEQSPAQDSCLEARKSQPDSCLSALHNSSDLELRATPEPAQTGVPQQVHPTEDASS
PWSVLNAELSSGDDFETQDDRPCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKEPDIEGKYLGLGVSGML
DLSEDGMDADEEDENSDDSDLDLRAFNLHLSLSESEDETEHPVPIILSNEDGRHLRSLKPTAANAPDPLPEDWK
KEKKAVTFFDDVTYVLFQETPTKELGPCGGEACGPDLSGPAPASGSPYLSRCINSESSTDEEGGGFEWDDDFSP
DPFMSKTTSNLLSSKPSLQTSKYFSPPPPARSTEQSWPHSAPYSRFSISPANIASFSLTHLTDSDIEQGGSSDGD
EKD

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FIGURE 1710

CCCACCCGCGACGCCGACGCAAGGCTGCTGCTATGCGGGCCGGGCGGCCGTGTGGCGCGGCTGCTCGCCCCACTAA
TGTGGCGCAGGGCGGTTTTCTCGGTGGCGGGGTCCGCGGTTGGAGCCGAGCCCGGGCTTCGGCTGCTGGCCGTGC
AGCGGCTTCCCGTAGGAGCAGCGTTCTGCCGGGCTGCCAGACCCCAAACTTTGTCCGCGGCCTGCACAGCGAGC
CTGGGCTGGAGGAGCGGGCGGAGGGGACGGTCAACGAGGGACGCCCAGAATCGGACGCGGCAGATCATACTGGTC
CCAAGTTTGACATCGATATGATGGTTTCACTTCTGAGGCAAGAAAATGCAAGAGACATTTGTGTGATCCAGGTTT
CTCCAGAAATGAGATATACAGATTACTTTGTGATTGTTAGTGGAACTTCTACCCGACACTTACATGCCATGGCCT
TCTACGTTGTGAAAATGTACAAACACCTGAAATGTAAACGTGACCCTCATGTTAAGATAGAAGGGAAGGACACTG
ATGACTGGCTGTGCGTGGATTTTGGCAGCATGGTGATTCATTTGATGCTTCCAGAAACCAGAGAAATCTATGAAT
TAGAGAAATTATGGACCTACGTTCTTATGATGACCAGTTAGCTCAGATAGCACCTGAGACAGTACCTGAAGACT
TCATTCTTGAATAGAAGATGATACTTCATCTGTGACTCCAGTGGAGTTAAAATGTGAATATAAATATTTTATGCA
CTGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1711

MGPGRVARLLAPLMWRRVSSVAGSAVGAEPGLRLLAVQRLPVGAFCRACQTPNFVRGLHSEPGLEERAEGTV
NEGREPSDAADHTGPKFDIDMMVSLLRQENARDICVIQVPEMRYTDYFVIVSGTSTRHLHAMAFYVVKMYKHLK
CKRDPHVKIEGKDTDDWLCVDFGSMVIHMLPETREIYELEKLWTLRSYDDQLAQIAPETVPEDFILGIEDDTSS
VTPVELKCE

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FIGURE 1712

GGGCCGCGACTGTGGTCGTTTTTATACCTTCCCGCGCGGACGCCGGCGCTGCCAACGGAAGGGCGGGTAGGGCGA
GACGGAGTTTCGTCATGTTGGCCAGGCCCATTTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCCAT
GAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTGGCATCTG
CAGGATGGCATTAAACGGATGCTGCCCTGACTGCAAGGTGCCCCGCGACGACTGCCCGCTGGTGTGGGGCCAGTG
CTCCCACTGCTTCCACATGCATTGCATCCTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTG
CCGCCAGGAATGGAAGTTCAAGGAGTGAGGCCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCTC
ATGCTGGCGCCGATGGCTGCTGGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAAACAAGGGCTGGAGCTGCGTT
TGTTTGCCATCACTATGTTGACACTTTTATCCAATAAGTGAAAACTCATTAACTACTCAAATCTTAAAAAAA
AAAAAAA

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FIGURE 1713

MKVKIKCWNGVATWLWVANDENCGICRMAFNGCCPDCKVPGDDCPLVWGQCSHCFMHMCILKWLHAPAGAAALPH
VPPGMEVQGVRPTWLSLEGHPETPSSCWRRWLLGTAPLSCNKVETRAGAAFVLP SLC

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FIGURE 1714

GTTTACATCCGCCGGGTGCGCGGTTTCGCCGCCCCGAGGTCGTTTCGGCTCGGGTACCATCCTCCGCGCCATGGACAC
CAGCGACCTGTTTCGCCAGCTGCAGGAAGGGGGATGTGGGCCGAGTGCGACCATGAACCCGTCCTGACCCAGGCTC
TGACCTCCTTCCTGCCCAGGTACCTGCTGGAGCAGCGAGACGTGGAGGTACTATGCCTGCTTGTGTGGGCACGAG
GAGCTGGTACTCTACCTTCTGGCCAATGGAGCCCGCTGCGAGGCCAACACCTTCGATGGTGAGCGCTGCCTCTAT
GGGGCAGTGAGTGACCCCATCCGCCGGGCTCTACGCGATTACAAGCAGGTACGGCTTCCTGCAGGAGCGGGAT
TACTATGACGACTTCTTGACGCGGCTTCTAGAGCAGGGCATCCACAGTGACGTGGTCTTTGTAGTACACGGGAAG
CCATTCCGGGTGCATCGCTGCGTCTGGGTGCACGTAGTGCCTACTTTGCCAACATGCTGGACACCAAATGGAAG
GGCAAGAGTGTGCTGGTTCTCAGGCACCCACTGATCAACCCCGTGGCCTTTGGGGCCCTGCTGCAGTACCTGTAC
ACAGGCCGCTGGACATTGGCGTAGAGCATGTGAGTGACTGTGAGCGCCTGGCCAAGCAATGCCAGCTGTGGGAC
CTGCTCAGCGACCTGGAGGCCAAGTGCGAGAAGGTGTCTGAGTTTGTGGCGTCTAAGCCAGGCACGTGTGTGAAG
GTGCTGACCATCGAGCCCCACCTGCAGACCCCGCCTCCGGGAGGACATGGCGCTGCTGGCCGATTGTGCCCTG
CCCCCGAGCTCCGAGGTGATCTTTGGGAGCTGCCCTTCCCTTGTCTGACGGCTTCAACAGCTGCCCTGACATC
TGCTTCCGAGTGGCTGGCTGCAGCTTCTCTGCCACAAGGCCTTTTCTGTGGCCGAGTGACTACTTCCGAGCC
CTGCTGGATGACCACTTCCGAGAGAGCGAGGAGCCAGCGACCTCAGGGGGCCCCCAGCCGTCACCCCTGCATGGC
ATCTCACCCGACGTCTTCACTCACGTGCTCTACTACATGTACAGCGACCACACTGAGCTGTCCCCGAGGCAGCC
TATGATGTGCTGAGCGTCGCCGACATGTACCTGCTGCCAGGCCTGAAGAGGCTGTGCGGCCGACGCTGGCTCAG
ATGCTAGACGAGGACACTGTGGTGGGTGTGTGGCGCGTGGCCAAGCTCTTCCGCCTGGCGGGCTTGAGGACCAG
TGCACTGAGTACATGGCCAAGGTCATTGAGAAGCTGGTGGAGCGGGAGGACTTCGTGGAGGCGGTGAAGGAGGAG
GCAGCGGCTGTGGCAGCCCGGCAGGAGACGGACTCTATCCCGCTGGTGGACGACATCCGCTTCCACGTGGCCAGC
ACGGTGCAGACCTACAGCGCCATAGAGGAGGCGCAGCAGCGTCTGCGGGCACTCGAGGACCTGCTCGTGTCCATC
GGTCTGGACTGTTCAGCCCCCTGGCTGGGCAGCCCCAGGGGCCAGGAGCTCTCTTGAGACAAGCATGTGTATGCG
TTTGTGTGAGCTCTTCTTCTGCTCCCTGCACATTGAGGGCTTCATGGGGGGTGCGAGGGGCTCAGTGGGGCTT
CTCTTCCCTCCATGAGCCTGGAGACCCAGGGGAGGATCCATTTGGGATGAGCCCCCTCCCCCAATGCACAAGC
CAGCCCCCAAGACCCTGGGGGTGGACACCACTCAGGGAAACCTGGGGTGGGGTGGGCTTTGGTCTTAGCACTTT
CCTTCTCCAGATCCCCCTACCCACCCAGTCCCAAATCCAGTCTCTGGCCCTTGCCTAGCCCTGAATTGCTTC
TCTAAGCTGGTGTCCCATGCACAGGGCCATTAGGAAGGGCTGGGGGAGTGTGTGTGGCAATAAAGCTTGAAGG
CACCGTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1715

MLDTKWKGKSVVLRHPLINPVAFGALLQYLYTGRLDIGVEHVSDCERLAKQCQLWDLLSDLEAKCEKVSEFVAS
KPGTCVKVLTIEPPPADPRREDMALLADCALPPELRGDLWELPFPCPDGFNSCPDICFRVAGCSFLCHKAFFCG
RSDYFRALLDDHFRESEEPATSGGPPAVTLHGISPVDVFTHVLYMYSDHTELSPEAAVDVLSVADMYLLPGLKRL
CGRSLAQMLDEDTVVGWVRVAKLFRLARLEDQCTEYMAKVIEKLVEREDFVEAVKEEAAAARQETDSIPLVDD
IRFHVASTVQTYSAIEEAQQLRALEDLLVSI GLDC

[illegible]

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FIGURE 1717

IFSKTSCFYLKFFSYLL

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FIGURE 1718

TGCGGCCGCTGCCTTGGACCCAGCGCCACCCGCACACGGCGCTCCGCTAGCCAGGCCGGGAGCAAGAGCCAGGCG
GTGGAGAAGCCGCGCTCGGAGAAGCCGCGGCTGAGGCGCTCGTCGCGCCGGGCCCCAGGAGGAGGGCCGGGGGAG
CCGCCGCCGCTGAGCTGGCGTTGCTCCCGCCACCGCGCCGCCGCCGCGGACTCCCGCGACCCCGACGTCTCTCG
GCGTCCAACCTGGACCTGGGCGAGCAGCGGGACGCCTGGGAGACGTTCCAGAAGCGGCAGAAGCTTACCTCCGAG
GGTGCCGCCAAGCTCCTGCTAGACACCTTTGAATACCAGGGCCTGGTGAAGCACACAGGAGGCTGCCACTGTGGA
GCAGTTCGTTTTGAAGTTTGGGCCTCAGCAGACTTGCATATATTTGACTGCAATTGCAGCATTGCAAGAAGAAG
CAGAATAGACACTTCATTGTTCCAGCTTCTCGCTTCAAGCTCCTGAAGGGAGCTGAGCACATAACGACTTACACG
TTCAATACTCACAAAGCCCAGCATACCTTCTGTAAGAGATGTGGCGTTCAGAGCTTCTATACTCCACGATCAAAC
CCCGGAGGCTTCGGAATTGCCCCCACTGCCTGGATGAGGGCACTGTGCGGAGTATGGTCACTGAGGAATTCAAT
GGCAGCGATTGGGAGAAGGCCATGAAAGAGCACAAAGACCATCAAGAACATGTCTAAAGAGTGAAGCTTCTGCCTCT
CCTGCCCTGAAAAGGAGGAATGATTGGGGCCAGCAACTTTGCTCTCCCTGCCGTGCCTCGGTGGTGCTCCTGAAT
GTGGCTGACCTGGGCTGCTGGTTCCGTTGACTAGGGTCATCTTGATCTCTGCAGTTTGCTCCAGCTACCAGTTTC
TTAGGCAGCTCTTTGTCTCCCTCTGCCCAGATTTTGATGTAGTCTAATTGACATCCTTCTCTTCCCACTTTT
GTGTGATCCAGCAGAGCATGTGAGACTCTTGATATGCACCTTCATGTATTATCTTGTTTCAGTTCTCTGAGGTTG
GGATCATTATTATTTCCCATTTTGCAGATGAGAGAATTGAGGCAGAGAAAGGTTCAGCACCTTGCTTTGGTTAC
ACAGCTGGTCATTCTGGCTTCAATCGCAGGACTACCAGCCTGTGCTCTTCACCACTTAGCTTCCCTGACTCAGGC
CACTTCCCTGGAGCGTTAGCTGGATTCTGAGAGTAGTTTCCAAGCCAGAGCTTTCAGAGAGCTTTGTTTCGTAGG
ACAATTTTAAGACATCAGGTTCTTGAATGTTTTGTGTTTTTTAAGTCTCAGATTTATCTTCTACTTCTACTT
CTCCAAAAGACTGAGAGCTGACATATTTGATTGTAAGCTCTTTGAGGCAGAGTTCTTGTAATCGTCTCTGTATA
AAACAGTGCCCAACCCAGTGACCTGTACTTGGATGCTTCAATCAGAGCTGTCTGTAAATAGAGCAAGTTTTTC
CTAGACCCACATTCT

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FIGURE 1719

CGRCLGPSAIRTRRSASQAGSKSQAVEKPPSEKPRLRRSSRRAPGGGPGEPPPELALLPPPPPPPTPATPTSS
ASNLDLGEQRDAWETFQKRQKLTSEGAAKLLLDTFEYQGLVKHTGGCHCGAVRFEVWASADLHIFDCNCSICKKK
QNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNGGFGIAPHCLDEGTVRSMVTEEFN
GSDWEKAMKEHKTIKNMSKE

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FIGURE 1720A

CCCGGGCGAGCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCGGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCTTGGGTGACTACAGCGTGTGTTTTTCTTTCT
CTTCCCCCTGCCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTTCAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCCAGATATCTGCCAAAGAGCAAATCATCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCAGTACGGATGGAGATGCAGTAAATTACATTTCTCTCCAG
CTTCCCCGACCTGCCAATCCTCTGTTTACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATATAGTGCC
ACCCTCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCACAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGTGTTCCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTTCAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACCTCACCACACTGAAAAAGGAGGCCAAGTTTGAAGTGCCTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAGGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGCAACAATTTAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCCTATCCAATGATTTTCAGCATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTCAGTGGCTGATTTTTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCCTTCTCCACGCTGGGGGACTCT
CCGTGTTGATGACCCCTTGAGATATCAGGCTGGCCTCCTGGTGCAGAAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAAGCCACCTCAGGTGTCTTCTCCTGTTCAA
GAGAAAAGGGATGTATTACCAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAATGGAGGAGACCAGGCCGAAGGAAGCTATTTAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCATCACTGCCCTCC
AGAATATGCTACAAAACCTGCTCCAGGGAAAATAGAGAAAGTCAAACTCCTCCATCCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACCAGGAGGAAGAAGACAACGAATAAACTTCTTCAACCCAGGAAGCGTCTTTGGTGTCT
TGGGAGACCAAGAAACCAAGAAATTAACAACCTGAAAGCATTTTAATGGACTATTTATTAAGTGCAAAACAACTC

[illegible]

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FIGURE 1720C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTTCAGTGAGCTGCCAATTTTGAT
TTTGTGTGCTCITTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTTGAAATTATACCTGTATCTGGTTTTCTGTGTATGTTAACCATTAAATGTTATTATCCTGCTT
TGGTTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAA

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FIGURE 1721

MAEAE LHKERLQAIAEK RKQTEIEGKRQQLDEQILLQH SKSVLREKWLLOGIPAGTAE EEEARRRQSEEDF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSDGD VNYISSQLPDLPI LCSR
TAEPSPGQDGT SRAAGV G WENVLLKEGESAS NATETSGPDMTIKKPPQLSEDDIWLKSEGD NYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPM DHPSAFYSPPHNGLLTDH HESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAF HEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWNNPPQEKTI EEQLDEEHLESHKKYKERKERRAQEQ LLLQKQLQQQQQPPSQ
LCTAPASSHERAS MIDKAKEDIVTEQIDFSAARKQFQLMENS RQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQD TTVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFS LFPQTPTDNPSEGRGEGVSKSFS DHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEAAAFGSEK PQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETREPGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLSMIEE EIRAAQEREEELKRQRQVLQ
STQSPRTKNAPSLPSRTCYTAPGKIEKVPPPSPTTEGPSLQPD LAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDSSYTSKLLSCKVTSEVLEATR VNNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 1722

GCTCTCGGGCCGCCCTCTTCGCCGTCTCCACGCCTCCGCGGGCAGTTACCAGCTTTGGCTGCTCGGCCTCCCC
AACTCGGGTAAAGCTCCTCGGCCTCGGCGTGCTGCGCCTCCGCGGCTGCCCTGCGCCAGAATTCGGTTCCCTCAA
AATTATAAAAGCAGGAAGCTCAAGACAAAGAAATCCAACAAGGCTAGTGATTTCAGTGATATGGAGAATTGGCC
AACACCAAGTGAATTAGTGAACACTGGATTTTCAGAGCGTCTCAGCCAAGGAAATAAAAAGCCACAAAATAGAAA
AGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAACCGGGAAACAAAATTAATGGTCC
TGGTGAACCGTCAGTGAGGATGAGGCTCAGTCAAGTAATCAACGTAAGAGAGCTAATAAGCACAAGTGGGTACC
ACTCCACTTAGATGTTGTAAGATCAGAGAGTCAAGAAAGACCTGGATCCCGGAACAGCTCAAGATGTCAACCTGA
AGCAAAATAACCAACACATAACAATAGGAGAAATGATACACGAAGTTGGAAGCGAGATAGAGAAAAAGAGATGA
TCAAGATGACGTTTCCAGTGTGAGAAGTGAGGGTGGTAATATCCGAGGTTCCCTTAGAGGTCGAGGAAGAGGCCG
AGGACGGGAAGAGGACGAGGCAGAGGAAATCCTCGATTGAACCTTTGATTATTCATATGGTTATCAAGAATGG
TGAAAGGCTGATCAACCATTTCAAACAGAACTTAATACCAGTATGATGTATTACTATGATGATGGTACAGGTGT
ACAGGTGTATCCTGTGGAAGAAGCGTTGCTTAAAGAGTATATTAAGCGTCAAATTGAATATTACTTCAGTGTAGA
AAATTTGGAACGAGACTTCTTCTTCGCGGGAAGATGGATGAACAAGGTTTCTTGCCTATTTCCCTGATTGCTGG
TTTTTCAGCGTGTTCAGGCTCTCACTACAAACCTTAATCTCATCTTAGAGGCACTGAAGGATAGCACAGAAGTAGA
AATTGTGGATGAGAAAAATGAGAAAAAGATAGAACCAGAAAAATGGCCAATTCAGGCCCTCCTCCACGCAGTGT
GCCACCAACAGACTTCTCTCAACTGATTGATTGTCCAGAGTTTGTACCAGGCCAAGCCTTTTGCTCACATACAGT
CAGGGTGATGATCTTCTGAAGCTCTTGGATGTCAATTTGATCGGAATATGCAGTGGAATAGGTGACTCACTGAAAT
GCCTTTATAAATACTGGAACAAATCCTGCTGCAAAAATGAAAGCGATCAGACTGTCTTCTGTTCAAGAAATGTCTA
TTCCCACCTCTTGGTGGAGGAAGTTGGGCCAACACTGCAGTGGAGATAACCACCTTTGCGATAATGAGAGACAGA
CCAGAGGACTGCTACTCTTTTTATAGGAGCTGCCTATTTCTGTGTAATTGGCCTGGGCTGCATGGGCTGCTTTTA
TTCAATGGTGGGAAAGTTAATTATTATTATTCTGGAAATACCGCAAGATTATGTTTTCTGTTTCCAGGGTTATGTA
CTTGIGTCCAGATGAATAAAGCAGAAAAAGAGGGGATTGAGTAGCATTTCAGATTCTTAAGTACTTTGCTATT
CGATTTGCCTTTTCAGTGTAGTGTACATTGTAAACTCAGATATTGTCATGATGTTTCACTTGGACATAAGACTTA
TTAATGTGGTCACTTAAGGGGTAAGGAATTTAAGAACTGGATGAGGTTATTTCTTCTTACTCTTCAAAATGTA
TTTTTGATACATCAGTATGAGAGGACGTCCCATCAACAAAGCATCGATGATGGACAGTCTCACACTATTTTATC
ATATGTTTCTTTGTCAGCCTTCTGCTTCTAATCCCAGTAAGCAACTTGGACAGGCATTTTAAAGCTGAAGAAAA
GTGACATTATTTAGCTAGTGGTTTTTAATTTATTTTTGTTAAGATATAATGGGTGATTATATAAGTTAGATTT
ATTTATGATATCAACTTGGGTCCAAGATGATAGTTTATAGCTAGCTTATGAACATTGGGTTACAAGGCATTGGGT
AAGTTAGATAAAATAGCATATACTTTCTCTGCAGGGTAGGTAAGATAGGTCAGTCAAGTTGGTAATGCCTGTCCA
TTAACCATTTATGCATACTAATAAAATTATAAGAATAAAATCATAATGTTGT

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FIGURE 1723

LSGRPSSPSRLRGQLPALAARASPTRVKLLGLGVLRLRGCPAPEFGSLKIIKAGKLKTKKSNKASDFS DMENWP
TPSELVNTGFQSVLSQGNKKPQNRKEKEEKVEKRSNSDSKENRETKLNGPGENVSEDEAQSSNQRRANKHKWVP
LHLDVVRSESQERPGSRNSSRCQPEANKPTHNNRRNDTRSWKRDREKRDDQDDVSSVRSEGGNIRGSFRGRGRGR
GRGRGRGRGNPRLNFDYSYGYQEHGERTDQPFQTELNISMYYDDGTGVQVYPVEEALLKEYIKRQIEYYFSVE
NLERDFFLRGKMDEQGFLPISLIAGFORVQALTTLNLILEALKDSTEVEIVDEKMRKKIEPEKWP IPGPPPSV
PPTDFSQ LIDCPEFVPGQAFCSHTVRVMIF

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FIGURE 1724A

CCAGGGAGAGGACTGCGGCCAAGAGTGCCCGGTGGGGACGTTTTGGCGTGAAGTGTGCTGAGCTCACTGCTCCTGT
GGGGGGGCCACCTGCCACGGGGTCACGGGGCAGTGCCGGTGTCCGCCGGGAGGACTGGGGAAGACTGTGAGGCA
GGTGAGTGTGACCCGAGCCCCAGTTCCGCCTCCCCAGGCTGCACGGCTCCAAGCTGGTGGGGCCCTGAACTGTG
GGGGCCCCAGCCCTGCGGATCCAGGCCCCGTCTATAGCAGGTGTGAGAGCTCACAGTGCCTCCCTGGGGTAGG
GAGGGGGGGTCTGTGGCTGCCCCACCAAGTTCTTGGGGCTCCAGGCTGCCCTCTCGGGCTGCTCCCTCTCTGCA
TGAGGCTCCATCTCTAACGGGCTCGGCTCCTTGTGTTGCCAGCTGAACGGTGGCGGGGGCTGGGGGTCTCTACT
GTGGGTGCGCACCCCGCAGCCTGCAGCCCCAGGAGGTGCCGGGTCTCTCCCTCCCGGGGCAGGCTGAGATG
GTAACAGTGGTTCCACCTCCTCGGCTGTGGCTCCAGGGGCATCGTGCCATGTTATGTTGATGTGTTGAGCAAGGG
CAGCTTGGGCACTGACTGGCCATGGGGGTGGGCACTAGATTGTCCCAGGGCCGCTGGGGGTGGGCTGCCAGGA
GATCTGCCAGCATGCCAGCAGCTGCCCGCTGCGACCTGAGACCGGAGCCTGCCTGTGCCTCCCTGGCTTCGT
CGGCAGCGCTGCCAGGACGTGTGCCAGCAGGCTGGTATGGTCCCAGCTGCCAGACAAGGTGCTCTTGTGCCAA
TGATGGGCACTGCCACCCAGCCACCGGACACTGCAGCTGTGCCCCGGGTGGACCGGCTTTAGCTGCCAGAGAGC
CTGTGATACTGGGCACTGGGGACCTGACTGCAGCCACCCCTGCAACTGCAGCGCTGGCCACGGGAGCTGTGATGC
CATCAGCGCCTGTGTCTGTGTGAGGCTGGCTACGTGGGCCCCGGGTGCGAGCAGCAGTGTCCCAGGGCCACTT
TGGGCCCCGGCTGTGAGCAGCGGTGCCAGTGTGAGCATGGAGCAGCCTGTGACCACGTGACGGGGCCCTGCACCTG
CCCCGCCGGCTGGAGGGGCACCTTCTGCGAGCATGCTGCCCGGCCGGCTTCTTTGGATTGGACTGTGCGAGTGC
CTGCAACTGCACCGCCGGAGCTGCCTGTGATGCCGTGAATGGCTCCTGCCTCTGCCCCGCTGGCCGCCGGGGCCC
CCGCTGTGCCGAGACCTGCCACGCCACACCTACGGGCACAATTGCAGCCAGGCTGTGCCTGCTTTAACGGGGC
CTCCTGTGACCTGTCCACGGGCAGTGCCACTGTGCCCTGGCTGGATGGGGCCCTCCTGCCTGCAGGGTAAGCC
ACATCTAGGAGTCCAGGGACCGGGGTCCAGGCTGAGCGAGGGTGTGGCCTCTTGACGGGGCCACAGGACACTT
GGTGCTGGGGGAGGGAGGAAGGGCTGTTAGGACTGAGGACCGTGCCTTTACCTGTGCCCTCTCCAGGCAGG
GATGGGGAGTGAGGCTGGGCTGGCAGGTATCCTAGGGGCAGCCCCCTGCAAGGTGCCTGACCCCAAAGTCCAAC
ATGGGGCTGGAAGCCAGACAGACCTGTGGGGCCAGCTGGCTGGGGGATGCAGGTGCTCCCTCTTCCCTGGCC
CCAGCCTGCCCTGCCGCTGTACGGCGACAAGTGTGGCATTCTGCCTCTGCCAGAACGGAGGGACCTGTGAC
CCTGTCTCAGGCCACTGTGCTGCCAGAGGGCTGGGCCGGCTGGCTGTGAGAAGGAGTGCCTCCCCGGGAC
GTCAGAGCTGGCTGCCGGCACAGCGCGGTGCTCAACGGGGGCTGTGTGACCCGCACACGGGGCCGTGCCTC
TGCCAGCGCGCTGGACTGGGGACAAGTGTGAGAGCCACCTGCCCGCGCTGTCTGGCCACAGATCCCCAC
GGGCCCCCTCTAGAAGCCTCCGACGCCCTCATCTTTCTGAGCCTGCCTGCGGGGCTGGTTTGGAGAGGCTGTG
CCCAGCGCTGAGCTGCCCGCTGGCGCTGCCTGCCACCAGCTCACTGGGGCTGCCGCTGTCCCCCTGGCTTCA
CTGGCTCCGGCTGCGAGCAGGCTGCCACCCGGCAGCTTTGGGGAGGACTGTGCGCAGATGTGCCAGTGTCCCG
GTGAGAACCCGGCTGCCACCTGCCACGGGACCTGCTCATGTGCTGCTGGCTACCACGGCCCCAGCTGCCAGC
AACGATGTCCGCCCGGGCGGTATGGGCCAGGCTGTGAACAGCTGTGTGGGTGTCTAACGGGGGCTGCTGTGATG
CGGCCACGGGGGCTGCCGCTGCCCACTGGGTCTCTCGGGACGGACTGCAACCTCACCTGTCCGAGGGCCGCT
TCGGCCCCAACTGCACCCACGTGTGTGGGTGTGGGCAGGGGGCGGCTGCGACCTGTGACCGGCACCTGCCTCT
GCCCCCGGGGAGAGCCGGCTCCGCTGTGAGCGAGGCTGCCCCAGAACCAGGTTTGGCGTGGGCTGCGAGCACA
CCTGCTCCTGCAGAAATGGGGGCTGTGCCACGCCAGCAAGCGGCAGCTGCTCCTGTGGCTGGGCTGGACGGGG
CGGCACTGCGAGCTGGCTGTCCCCCTGGGCGCTACGGAGCCGCTGCCATCTGGAGTGTCTGCCACAACAAC
AGCACGTGTGAGCTGCCACGGGCACCTGCCGCTGCGGGCCCCGGCTTCTATGGCCAGGCTGCGAGCACCCTGT
CCCCCTGGCTTCCACGGGGCTGGCTGCCAGGGGTGTGCTGGTGTCAACATGGAGCCCCCTGCGACCCCATCAGT
GGCCGATGCCCTGTCCCTGCCGCTTCCACGGCCACTTCTGTGAGAGGGGTGTGAGCCAGGTTTCAATTTGGAGAG
GGCTGCCACCAGCGCTGTGACTGTGACGGGGGGCACCTGTGACCCTGTACCCGGTCTGTGCCCTTTGCCACCA
GGGCGCTCAGGAGCCACCTGTAACTGGATTGAGAAGGGGCCAGTTTGGGGCCAGCTGCACCTGCACTGTGAC
TGCGGGGGTGGGCTGACTGCGACCTGTGAGTGGGCAGTGTCACTGTGTGGATGGCTACATGGGGCCACGTGC
CGGGAAGGTGGGCCCCCTCCGGCTCCCCGAGAACCGTCTTAGCCAGGGCTCAGCGGGCACACTGCCCGCCTCC
AGCAGACCCACATCCCGAGCGGTGGACCAGCGAGGCACTAGTAGAGGCACTCCCGTGGAGCCCGCTCTCCAGT
CCCAGCCAGAGGGGACCTGGCTTTGGTGACCACTGAGAAGGACACTTACGGGGCCAGAGCTCCTGGTACTGC
CCTTCTTTGAGGGCCGTGGAGGGCTGTGGACAGCCAGCAACCTGTGCTCTTGGAGGCTGGTGTGGCCTTGAG
GAGGGAAGCCTCGCATGGCCGTGGAAGAGAGGCGCTCCTGGCTGGCTGTGAGAACCAGGGGCACGCTCTG

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FIGURE 1724B

GGCCTGGGCTGAGGAAGTCCCGCTCTCCCGCGGCTCTGAGTTGGACTGAGGACAGGTGTGGGCGCCAGTGTGGG
TGCAGGCGCAGGTGCAGGCACAGGGCCACTGTCTCCAGGCAGGCTTTTGGTGCTAGGCCCTGGGACTGGAAGT
CGCCCAGCCGTATTTATGTAAAGGTATTTATGGGCCACTGCACATGCCCGCTGCAGCCCTGGGATCAGCTGGAA
GCTGCCTGTCTCTCTGCCCCAATCCCCAGAAACCCTGATTAGGTCTGCAGGCTCCTGCGGGCTCACCAGGCTG
CTGGCTCCGGTACCATGTAAACCTAGGAAGGTAAAGGAGCAGGCAACCTCCTCGTGGCCTGTGTGTTTGTGTGT
TACGTGGACTCTGTGTGGGCTCCTCCCTGGGGCCCGGCCAGCATACCGGTGCACCCAGGGACCTCCCAGTGCACC
CGGGGCCCTTTGCAGGGGTGGGGGTGCCACACAAGTGAAGAAGTTGGGACTCATCTCAGTTCCAGTGTCTATTGA
GGAGAACGCTGGGGCTGCATTTCATTACCGCTGAGACCCAGAGACTGGCTGTTCCAGAGAATGGCCCAGGGGGAG
GAGGGCTGGTGTGGAGGGGGCAACCTGGACTGAGGCCGAACCTCCCTTGGGCTCACCCACCCACCCCTACCTGAGC
ATCAGCAGTGGGGGGAGGGCAGCATCGCAGGGGCAGGACTCCCTGGGTGAGGACAGACCAGCCCTCCCGAGCAC
CTGGCACTCATGGGCTGAGGCTGACTTCTCCTGGAAGAAGGGCCCAGAGTGAAGGAAGAGGCAGAGGGTAGAGG
TGGTGGCTGGGGGCTCCTCTGCAGAGTGGGGTGGCCAATGGAGAGGGCTGCACTCACACCGCAACATAGGACTCT
CTCTCCCTTAAGAAGGCCCCCTTAGGGTCTGGGCTGCCGCCCCCATCACCTAAAACAGCCAAGGTAGCTGAGG
CCCCAGGGCAGACAATTTACCCAGCAGGAGGAGGAGGTCCAGTGAGCTTGGTTGCTCACAGACAGCAAGGGAG
CTGTACAGAGGAAGCTGATGAATGGACCGCTGTGGGGAGACTTTAAAGTAGAACAGTGATAAGGGAGGGCAGGA
TGGTGGGGATGCAGAAGCAGCAGCCAGAGAGACGGACTGGGGTGCAGACGGAGTGTGGAAAACGCATACCTTG
AAATGAAGCATCCAGCAGATGGGGTGAGTGGATACAGCTCAGGAGATTCTCCAGGAATAGCAGGGAGGCGTAAA
GAGAGACAACGTACAGAGATAGATGAATGGAAATGGGTAAAGGGAGGTGTTTATTACATCCATCTAACTGCAAAA
TACAAAAGTAAGAAGTCATTGACATGAAGCAACGACGACCAAGACGTTCTCAGATCTAAAGGTGAATGATCTCAG
TCAGCCTGGAATGCACAAGGTGGAATAAATAAAGCCATAAGACCTGAAGAACATCAATGTCAAAGA
TAAATTCTAAAGTCCCAGAGAAAAAAGAAATGGGAATCAAATTGACCTCAGACTATACGTGAGAAACACGGAGAGC
CAGAAAACTGTGATGTTCCATCCTCAGAGTTTGAAGGAAATATTTGAAGGCTGAATTTTACATCCAGCTAAACTA
TCAAAGGCATGCAAAGTCCATGTTATTCTTAGGCCTTCAAGGCCTCGGCCATTTTCTACAGAAAAGCCTGATTT
TAAATGCTCTTAGAGACGTTCTCCAGCCAGAAGAGAAAGAGCCAGGAGGGTGTCTGTGAGATATTCAGTCACCA
CAGTTCCCAAATGGCCTAGGAATTCAGAGAGTCAGAATATCACCATTACTCCCAATGGGAACCCCCGACAGTCT
CAGCATGGTGTGAGGGTGTGGACGGGGGGCCTGGCAGGTACCAATCACTCATCCCGCTCAGTGAAGACACAGTGT
TCAGCTACGGAAGCCATAAGGCAGGCCGAGCTTCTGCCCATCCGGAGGAAATCTCAGCTATCCAACGGCGGTGAG
GAGCAGAGGAAAATAAAGCAGAATAACTAGAAAACACGCTCAGAGATCCTAATGTTAACGGTTACAAATGACGAC
GGAAAAACAACTCCTGACCATATATTATATAGTTTCAAGCAGCAAGAAGGAGGATATTGAACATTCTCAACACA
CATAATAAACGCTTGAGATGATGATATGCTCATTACCCTGATTTGATCACTAGACATCCCATGTATCAAAACATC
ACTGTGTATCCGATGAATATCTACAATTATTGTCAATTAACACATCATTAAAAACAA

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FIGURE 1725

MGLESQIDPVGPGAGWGMQVAPSSSLAPACPAGLYGDNCRHSCLCQNGGTCDPVSGHCACPEGWAGLACEKECLPRD
VRAGCRHSGGCLNGGLCDPHTGRCLCPAGWTGDKCQSPPAPGLSWPTDPHGPLEASAALIFLQACGAGLERPV
PSAAAARLALPATTSLGPAAVPLASLAPAASRPAHPAALGRTVRRCASVPVTRPATLPPGPAHVLLATTAPAAS
NDVRPGGMGQAVNSCVGVSTGAAVMRPRGPAAAPLGSSGRTATSPVRRASAPTAPTCTGVGVGRGPATL

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FIGURE 1726

CTCGGGGTAATGCTCTTCTCCAAACTGTTTTTCGGAAGCAGCGGTGAACGGGATCGTGACGATGTGGACGTGCT
GGGCGCGGGCATCCGGCTGGTGACCCTGCTGGTGGATCGGGACGGGCTGTACAAGATGAACCGCTGTACCTCAC
CCCCACGGCTTCTTCTCCGAGTCCACATGTTAGCCCTGGACTCCTCCAGCTGCAATTAAGCCGTGTCCAGAGTT
TAAACCTGGTATTGAAACTGACCTGAATGACGCTGCATATGTACTTTATACCACCGTTTGTAACTGGGTGCCAC
AGCCCGGGCTGTAGGTCGCCAGCCTTTTTTTGGGAGCGATGGGGAACAATGACATGAATGGGATTAGACGACA
GGCAGCAGGTATATTGTGATGGGCCACATCTACCATAAGAGACGGCAGCTCCCTACAGCTCTGCTCCAGGTCCTG
AGAGCCCGCTCCGTCCAGGGATGGACTGCTAAGGAGCAGCAGCAGCTATGTGAAAAGGTTTAAATCGAAAAAGG
AAGGGCAGATTCAAGGTGCAGTTCATACCCCAATGCATTTGAAACAACCATCCTGGCATTCTTGGACCGCAAGAGA
CTTGGACGTCGGCAACAAGACATGAAAGGTCTACCTTCATGTAATGGGTCTCCTTCAGAAGAGAGCCCTCAGCT
ACTCTGTGAATGACTTGCTAGCTGCAACTGTAATCTCGAAGGTGTCACTTTGTTATTTACAAGATGCTTCTTAA
ATGGGCTGCTCCTGAGCCTCAGTGTCAAGGTGATTCAACTGTTGTGCCAGACAGTGATTTACACAGCTCAGATAA
CTGACCTGTCTAGTTAACAGATCACTGCTTCATGTTTTCAAATATTTTAATTTAATACATTCTTTAGTAGAAATA
GTCCACAAAAACATTTTTCTTGAATTTAAATATACAACCTTTTATATCATGTATCAAACCAGATTTTATATTCAAAC
GATCACATTTTAAATTCTGTACATAACAGTAAGCGCACTAGTCAAAAGACATTTATGTTGAAATGTCATTTAGA
TCAAACACAAGGGTCAAAGCCCAGGACAAGTATTAAAGTTTTATACTTAAAGAGTACTAAAGGGCCAGTGTGCAG
ATGGGTGGATTAAAAAAATAAATAAAAAATAAAATAGTACTAAAGGGCTTACTTCAGGCAAAAGTGTCTCTGACG
TACCAAAAAGTAAGATATAGTTTTATTTTCATGCCTCCCTGCTCCTAGTAATGTATGTTTTGTGCTGAACTGGCAG
CTATCCCAATGTGAAATGTATTTTGGATGTATCTGGTGTCACTTTTCTATTAAGACCAAGTATAATGTTTGTGTTG
TAAAGCAATAAATCTTGACTTGAAATCAGATCTTGGATGCACCTGTTGTTTTGTTTTAGCCTTACTGAGCCCT
AAAGGTTTGAGAAAAAGGCTTTCTCAAATTCATTCCCCAACCTTGGAAACCAATATTCACCAATGACGGCTCACA
AGCAAGCGAATTTTAAACATTTTTTCAGTTGGTTTTAAAAAGGTTTAAATGGCCGGG

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FIGURE 1727

LGVMLFSKLFFGSSGERDRARCGRAGRGHPAGDPAGGSGRAVQDEPPVPHPRLLLLPSPHVSPGLLQLQ

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FIGURE 1728A

TTTTGGCTGCCTCTGTCTGGTCTGTTTCAGTTACCACGTGAACCGCCGACGGAGACCCGTAGTGGGGGAGGCGGCGG
CAGCGTTAAGTGAGAAAAGGAAAAAGACAACGAGGAAAAAGGAGGTGTCCGGGTAGGGCAACGCGGCGACACCCG
AGGCCTGGTGGTGGCGGCGGATCGAGATATTCAAGGCTGAAGCAGCTACGGAACGGCAGCGCGCGGCGGTGCGACA
AACTGACTGACCGAGCCGGGTGGTGGCGGGAGCAGCGGGAGCAGCCGGAACGATGCGCGCCGTGAGCCTCCCGCC
CAAGGAGAATGCGCTCTTCAAGCGGATCTTGAGGTGTTATGAACATAAACAGTATAGAAATGGATTGAAATTCTG
TAAACAAATACTTTCTAATCCCAAATTTGCAGAGCATGGAGAAACCTTGGCTATGAAAGGATTAACATTGAAGT
TTTGGGAAAAAGGAAGAAGCTTATGAATTGGTTTCGTAGAGGTTTGAAGATGACTTGAAGAGTCATGTGTGTTG
GCACGTTTATGGCCTTCTTCAGAGGTCAGACAAGAAGTATGATGAAGCCATTAAAGTGTACAGAAATGCACTAAA
ATGGGATAAAGACAATCTTCAAATCTTAAGGGACCTTTCTTACTACAGATTCAAATGCGAGATCTTGAGGGTTA
CAGGGAACGAGGTATCAGTTACTTCAGCTTCGACCTGCGCAGAGAGCATCATGGATTGGTTATGCTATTGCTTA
CCATTTATTAGAAGATTATGAAATGGCAGCAAAGATTTTAGAAGAATTTAGGAAAAACAACAGACATCCCCTGA
CAAGGTGGATTATGAATATAGTGAACCTCTTATATCAGAATCAAGTTCTTCGGGAAGCAGGTCTCTATAGAGA
AGCTTTGGAAACATCTTTGTACCTATGAAAAGCAGATTTGTGATAAACTTGCTGTAGAAGAAACCAAAGGGGA
TCTGTTGCAACTATGTCGTTTGGAAAGATGCTGCAGATGTTTATAGAGGATTGCAAGAGAGAAATCCTGAAA
GGCCTATTACAAAGGCTTGGAAAAAGCACTCAAGCCAGCTAATATGTTAGAACGGCTAAAAATTTATGAGGAAGC
CTGGACTAAATATCCCAGGGGACTGGTGCCAAAGAGCTGCCGTTAAACTTTTTATCTGGTGAGAAGTTTAAAGA
ATGTTTGGATAAGTTTCTAAGGATGAATTTAGCAAGGGTTGCCACCAGTCTTCAATACTTTAAGATCATTATA
CAAAGACAAAGAAAAGGTGGCAATCATAGAAGAGTTAGTAGTAGGTTATGAAACCTCTCTAAAAAGCTGCCGGTT
ATTTAACCCCAATGATGATGGAAAGGAGGAACCAACACATTACTTTGGGTCCAGTACTACTTGGCACAACA
TTATGACAAAATTTGGTCAGCCATCTATTGCTTTGGAGTACATAAAATACTGCTATTGAAAGTACACCTACATTAAT
AGAACTCTTTCTCGTGAAAGCTAAAATCTATAAGCATGCTGGAAATATTAAGAAGCTGCAAGGTGGATGGATGA
GGCCCAGGCTTGGACACAGCAGACAGATTTATCAACTCCAAATGTGCAAAATACATGCTAAAAGCCAACTGAT
TAAAGAAGCTGAAGAAATGTGCTCAAAGTTTACAAGGGAAGGAACATCAGCGGTAGAGAATTTGAATGAAATGCA
GTGCATGTGGTTCCAAACAGAATGTGCCAGGCTTATAAAGCAATGAATAAATTTGGTGAAGCACTTAAGAAATG
TCATGAGATTGAGAGACATTTTATAGAAATCACTGATGACCAGTTTGAATTTTATACATACTGTATGAGGAAGAT
TACCTTAGATCATATGTGGACTTATTAAGCTTATGAAGATGTACTTCGACAGCATCCATTTTACTTCAAGGCAGC
AAGAATTGCTATAGAGATCTATTGAAGCTTCATGACAACCCCTTACAGATGAGAATAAAGAACACGAAGCTGA
TACAGCAAACATGTCTGACAAAGAGCTAAAGAAGCTACGTAATAAACAAGAAGAGCTCAAAGAAGAGCCAGAT
AGAAGAAGAGAAAAAAATGCAGAAAAAGAAAGCAGCAGAGAAATCAGAAAAAGAAGAGGATGATGATGATGA
GGAGATAGGAGGTCCAAAGAAGAACTTATCCAGAGAACTGGCCAAGGTTGAACTCCATTGGAAGAAGCTAT
TAAATTTTAAACACCGTTGAAGAAGCTGGTGAAGAACAAGATAGAGACTCATCTTTTGCCTTTGAGATTTACTT
TAGGAAAGAAAAGTTTCTTTTATGCTACAATCAGTAAAGAGGGCATTGCTATTGATCTAGTCATCCCTGGCT
TCATGAGTGTATGATTGCTCTTTAATACTGCAGTGTGTGAAAGTAAAGATTTATCTGATACAGTTAGAACAGT
ATTAACAAGAAGATGAATCGTCTTTTGGAGCAACGAATCCAAAGAATTTAATGAACTTTTCTGAAAAGGAA
TTCTGATTCAATGCCACACAGATTATCAGCTGCCAAATGGTATATTACTTAGATCCTTCTAGTCAGAAGCGAGC
TATAGAGTTGGCAACAACACTTGATGAATCTCTCACTAACAGAACTCCAGACATGTATGGAGGTATTGGAAGC
CTTGATGATGGTAGCCTAGGAGACTGTAAAGAAGCTGCTGAAATTTATAGAGCAAATGTCATAAGCTTTTCCC
TTATGCTTTGGCTTTCATGCCTCCTGGATATGAAGAGGATATGAAGATCACAGTTAATGGAGATAGTTCTGCAGA
AGCTGAAGAAGTGGCCAATGAAATTTGAACATCACTAAACAAGCAAATGGAATGACTTTGGACCATATCTAGTAT
ATAATATTTTGTACGCACCTGCTGCATTGCTCTAACTTACACAGAATGAGAGGAGTAAATGTTCTTGCTTCA
AATAGTGTTTTACGTTTTTTATCCTGCTGAAAAAGTATATATAAAATATCTAACATTACAGGATAGAGGTTTCAGT
TTCTTAAAAAATTAAGCTGCTAAAAATGAGTGGTTAAAAAGATACCTTATCCTATTCTCCCCACCCACCCAT
GTTTTTAACTAATTTATATAAAATCTGGAGGCTGTTACAGCTAACAAAGCAGGTGTGTGGCAGAAATATTACTT
TAAATTTGCTTTGTGAGATTTTACTATATCTCAGACAGCATAAATGCTGTTTTAGCACTGGATTCTTTCAGT
CACAAAGAGTTGTTGGGGCTTTAGCATCTGACTGATTTGTTACGGGGTTGATTCTGACCATAGGAAGTATGCAA
TGTGAATCACTATTTACAGAGAAACCTACAACAGATGCTTGATGTTGTAGAACTGGGACATATAGATACCAAGC
AAAATATAAGAAACCTATAAGGTGTTCAATACGCTTGTTTCCAAATTCAGTGTACATGATCAGTTTGGTGT
TCTTGTACCACAGTTTTTAAGTGAAGGAACAGTTGTAACAGTCTCAATTTTAACTAAACTTGAAGAAGTAAAA

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FIGURE 1728B

CAACAATGCAAACCTTTTCAGCATTGTTTGGCCAAACTGTATAAACTGTAATGCAAGAACCAAATGCACTGTGAT
GTGGCACCACCTAATTAGCAAGCATGAATTTTTCACCCAAGAGTGAAAAAGGAAAATCTACCATGGCTTGAAGT
TAAAGAGCAGAACTCCTGACTACCATTTCTATGACTGATCAAAAGACTAATAGTTAAAAACCTCAGCAGGCCTTGT
TCACGATATGCAGAAAAAAAGTGTGCAGTTTAGATACCTCTGGAATTTTCCACAGTGTACAGGTTTGTAAAT
ACTTGAAGCCCTACATTTCTAAGAATATATTTCTTGTCTCAGTTGTTTCAGGCAAGCCCAAGACTTTGTAAATTTT
AAAGGGCCCAAGATTTTTTTTTTTTTTTTTTTTTTCAAATAACAGACCAGCTTCTTTTTCTTGCAGTTACAGATGT
AATTTCTTTTTTGTGTCAAACATAAGGTACCAAATATGATGCAATAAATTGTTTTGAAAAACAGTTGTGTGAAT
ATTTCAACTAATCTGTGTTGGGCTTCTGTGAAATACACAGGTGAAACAGAGGTGCAAGCCAGAGGCAATGTAAT
ATGCTGTAAGGCTAGTGCAGATGGGAGCTTTTTAGAAGGGGCTAAGTGTCTGGTGTGAGGGAAATCCATAATGAA
GTAGAATGCTGCTCCTGCATTAAAGATTTCAATTGAGGGCAAGGCTGGTGGCAGGTACTATGAATGTAATTCATAAT
TAAAAAGGAAACTAAAAACTATTTTGATTTGGGAAATGAGCCTTAATTTGTTAAACCTATACACTGAGAACTA
GCCTCAGGCTTAATATTCTCATTGCAAGATCTGAGCAAATAAGATTAAGTAAACAAATCAATTGTATA
TATAATTGACCTTTTTGTGGAACATGTAGTTTATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTAC
TGATTGAACAGTTGTGCTACAATCACTTTTCATAGTACATGACCTGCATTCCACATCTCAGTCTAACAGTTTAG
TAGTGATGTAAGAGAAGTACAAACCGAACTCCAGTGCTTTGTTATGTTTTATTAAGTGGCCCTGTCTCAGGAAC
ATCTTAACAGATGGCAAAAAAACAAAACTTTTTTCAACTCCTATGAGTGGCAACTGAAGTTCTTATTGTTGGG
AAAGAACACTAGTCCTACCTCTGCCACTAATGAGGTGTTTGGAGGAGGTACCAGCCATATAATAGGGGGTGTATG
TGTGAATTTTGTATAAACTCTACTGTATATTGAAATGAAATTCATTTATTTGTCTTGACAATGTTCAAATGATGT
AGATTGTCTTAGAATGAATATTCATAAGTACTCAGAATCTTAAGATGCAGATGCCACCCGTGAGGAGCTAAATT
CCTAATGTGTATTGTATTCCAACCAATTTTACTGGAATATTGAATAAATCTTTATTTTCTTTTCAGGTTTACT
TGATAGTGGATACATTGGTGTGAGAGGACCTTGACTGGGTTCATTTTATGTCCAGACATCACCCCTGAAACACTG
TACTGTACTATCTTGCTCTGAGTAGTATCAACTGGATCGTCTCATATTTGCCTCATTATCCTATTAATTTCAA
TGATACTGTGGGGGAAAAACAGGGTTAGAAAAACAAGTGGAAAAATGGAGTGTGTTGTAATCTAAACAAGTGC
CTTATGTTTATTGCTAAGAACTGGTGTACCAACCCTTTTGAGAAGAAAGGGTCTCTTGACCTGTATTAACATAG
GAAAGTAAAGTTCTTTTTGTTTTCTTTATAAGCTACTCTTGTCAATTTCTCGTTGAAAACTAAATCTGACTAG
GTTAGTTTACTCAGCTTTAATTAGATAGTTGAGTCATATATTTCAACATTTTCTGTATCGTATTTATTATGCA
CAAAAATAAGTGTGATCTCTAAT

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FIGURE 1729

MPAVSLPPKENALFKRILRCYEHKQYRNLKFKCKQILSNPKFAEHGETLAMKGLTLNCLGKKEEAYELVRRGLRN
DLKSHVCWHVYGLLQSRSDKKYDEAIKCYRNALKWDDNLQILRDLSLLQIQMRDLEGYRETRYQLLQLRPAQRAS
WIGYAIAYHLLLEDYEMAAKILEEFRKTQQTSPDKVDYEYSELLLYQNQVLREAGLYREALEHLCTYEKQICDKLA
VEETKGELLQLCRLEDAADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKYPRGLVPRRLPLNF
LSGEKFKECLDKFLRMNFSKGCPPVFNTLRSLYKDKEKVAIEELVVGYESLSKSCRLFNPNDGKEEPPTLLW
VQYYLAQHYDKIGQPSIALEYINTAIESTPTLIELFLVKAKIYKHAGNIKEAARWMDEAQALDTADRFINSKCAK
YMLKANLIKEAEEMCSKFTREGTSAVENLNEMQCMWFQTECAQAYKAMNKFGEALKKCHEIERHFIEITDDQFDF
HTYCMRKITLRSYVDLLKLEDVLRQHFPFYKAARIAIEIYKLHDNPLTDENKEHEADTANMSDKELKKLRNKQR
RAQKKAQIEEEKNAEKEKQQRNQQKKKDDDEEIGGPKEELIPEKLAKVETPLEEAIKFLTPLKNLVKNKIETH
LFAFEIYFRKEKFLMLQSVKRAFAIDSSHPWLHECMIRLFNTAVCESKDLSDTVRTLKQEMNRLFGATNPKNF
NETFLKRNSDSLPHRLSAAKMVYYLDPSSQKRAIELATTLDSELTNRNLQTCMEVLEALYDGSIGDCKEAAEIYR
ANCHKLFPYALAFMPPGYEEDMKITVNGDSSAEAEELANEI

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FIGURE 1730

CACAGAAACATGATGTGGAAGTGCTGGAACGGAACCTCCAGACCATCCTGTGTGAGTTTGAGACCCTCTACAAAG
CTTTCTCAAACATGCAGCCTCCCGCAAGGATGGAAAATGAACAGCACCCCGAGCGGGGAGTGTTTACCTTTTACT
TGGTCAATCAGGGGGTTTGTGTTCCAGGAACGTAGGAAGTGCCACGGACGTACCGCTTGCTCGGAAGCCTTC
GGACCTGTATTGGAACAATGTTTTTGGGAACGCGTGCATCTCTGTGCTGAGCCCTGGGACTGTGATAACGGAGC
ACTATGGACCCACCAACATCCGCATCCGATGCCATTTAGGCTGAAAACTCCAAATGGCTGTGAGCTGGTGGTGG
GGGGAGAGCCCCAGTGCTGGGCAGAAGGGCGCTGCCTTCTCTTTGATGACTCTTCTCTGCATGCTGCGTTCCATG
AAGGTTTACGAGAGGATGGCCACGGGTGGTTTTTTCATGGTGGATTGTGGCATCCAAACGTGCGAGCGGCCGAAC
GGCAGGCTCTTGATTTTATCTTTGCTCCGGGACGATGAGAGTATTTCCCATGCTGGAGTCCGCGAGAAGGGCCGA
GGCGGGGCTGGGCAGACTGTGGTCCGGTCCAGTCCCTACCGGTGTGTTTCCATGCTCAGAAACCTGCCTCAGC
GGAAAGCTCTTATTGGGATTTTATATCATGTCCGGTCCCTCTTTCCCTTGGTTATTGTAAATGGAACTTTTCG
GCTTGATTTCCTTAGATTTTTTTTTTTTCTTCCAATCATTGCTTCAGAGACTCCTTCTGGCCTAACAGCGC
ATTCTTTGATTGGTCTTGAGTGACCAGAGACTTAGTGCCCTGTAAAGTCTGTCTTCTGTGCTACTTGTTTTT
TTCAGTGCTCTGAAATAGAGTAATAAATGGTTATTTGTCTGAATATAATAATGTAAACTTCTTGTGGTCATCT
TAAAAAAGCTCTTATTGGGATTTTATATCATGTCCGGTCCCTCTTTCCCTTGGTTATTGTAAATGGAACTTTTCG
CTGGGGACCTTCAGCCACCTGACGGCAGGGGGACAGTCTGCAGCCCCACACCTGACTGGCTTCAGTAGCCAGG
TGGAGGGGCTGCCAGACACAGTCAGGGTGGCACACAGTGTCCAGGCCCAGGGATACTGTCAACATCGCTCACCTC
ATTCTAAACCTTGTCAAGTCCCTGATGGCAAAAGCATTGGGGCAGTAGGACTGGAGGCTACTCTTTAAACATGGC
TTTCTGCAAAGCTGAAGCTGGTGTCCCCCAGCACCAAGCTGCGGCTCACACAGATCAGCCACGGAACGTGTGAT
CCGCTTACCTCACTGCCTACAGAAGCCCTACTGCCAACTGGGCCTGGAAAATCCCAGTTTTAGGTGTTTTGAG
TCCACAGTGATGAACGTTAAGGCCACCAGGTTGGCTGATAGGAGCTGTAGGGGGATAGGACCGCGCTCAGCCAGC
GACATTTGGGGAAAGCCTTTCTCTGGCAAACTGGAATAATAGATCTGACCAAAGTTTCTGTTTTGCTTTGGAGT
TCTGTTGCCTATGTTTTTTTTTTTTTCAATTTATTTGTCTGTACATAAATGTTCAAACACTAGACTTGGAGATAGT
GGAAGAGTTGGCCCTGTGTCTTTGTCTATGGCACAAAGGTGTGCACTGCGTGACAATGACCCAAGCCAGTGTGTGC
TAGTGAGGAGACAGAGAAGACCTACATGCCAGAGGACCCGTGGCCGTTGTGCTGGTTTTCTGGTCTCCTGTGAA
GAACATGTGGATCTCTTCCCGAAGGAAAAGGTCCAGGAGACCAGTTTGAGGCACTCACTCTAGAAATAGCCTGT
GTTAGCTGATGTGTGAAAGCGTAGCCGGCCAGCCACACTAGAGATGCCCTTTCTGAATAATGTATTATGAGCAGT
GTCAGATTTATAAGCCGAGGAGTGGTTTGAATATACAGCTGGTTCGAGGTGCAGGTCCAGTGTTTAGATCCAA
ATGGAAAACAGCAGCTTCTAAGAGGTACAACCTGTTGGAAGAAAACACAGTTGAAATGCACCAGGCAGGTACTAGC
AAGTGTGCAAAGAGCACGTCTACATTTGAGTAAAATGTCTACACAGATATTGTCAAGTATGAGAATGCAGGAAA
AGGCAGACATTTCAAACATACCTGAAGTCTTTTACTCATTATCTTGTTAAAGAATCACTGAGGTGCATGATTTT
TACACATCGTGAAGTCTGCTCTGCGTTTACAAAACCAACAGCCCGCGCAGGTACCTAGCTACCTGCATTTCATG
TGACATGTCTGGGGAACAGAAGATAAATAAAGGATCTTGTGAAAACAGAAAAAAGAAAAAAGAAAAA
AAAAAAG

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FIGURE 1731

GAATTCGGCACGAGAATGAGCCCCACAGAATAAAGGTTTTTCTCTTGCTGTGGCCTACTGGAAGCCTTCCTAAC
TCTATAGCTGGTAAAGTAGAGCAGAAAGGGCCAGAATGGCCTTAAGATGGAGCTAAATCCCTATAGCATTCCATTT
TCTGCTCTTGCCCTCTTGAACCTTAGAAGGCTTGCCCATATAICCTAACAACTCTGTTCTCTGAGCTGTTAGGCCAAT
CCCTGGTCTCAAACCTCCTGACCTCAGGTGATCCACCCACTATGGCCTCCCAAGGTGCTGGGATTGCAGATGTGAG
CCACCGTGCTGGCCAGAAAATCTGATTCTTATTCTAGTTCTTCATTCTGTGCACATGCACCTTAGTTGACATT
ACATCTACATATATTAGCTTTTTCTACATGAGCCATCTATTTACTTAGTAACCAGTGTTCTTAATGAAGTATTT
AGTCTTGCGTTTTCTGTAAAATTTCTCTGCATTCCCTAGACAGTGTACTATACATGAAATATTCTTGTGACCTA
GTAATTTATATTATCCATTTAATCTTAAACCTATGGCCTTTTTATTGAGCACACTCTTAAATCATTATTTGGC
TTGTAAACATTTCATCTGAATTGTGGCTACAATCCTCTTAAATAATCTAGGAAAAAAGAAAGATAAAGCTTACAT
TTTCACAGTTTTTGGCTCTTAAACACATTCCACAAATGCCATTAAAGAATTTATTTTGTGTTTAGGCCAGTCATGGTG
GCTCATGCCTGTAATCCAGCAATTTGGGAGGCTGAGGCAAGAAGTCTTGAGCCCAGGAGTTTGAGACTAGCCT
GGGCAACATAGCAAGACCTGTCTCTACCAAAAAAAAAAAGTTTTTTTTGTTTTAGAGTCATTTAATGTGTTTT
TATGCACAATAATAGTGGGAGGTTGTTTTGTTGCAATTTGTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGCTTTCCAT
GTGGGAAAAGTTAACATTGGAAGTGTCTAGTAAAAGATTTTTTTCAGGCTGGGCACGGTGGCTCATGCCTGTG
ATCCCAACACTTTGGGAGACCGAGGGAGCTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGG
AAAACTCCATCTCCACTAGAAATACAAAAGTAGCCTGGTGTGGTGGCACATGCCTGTAATCCAGCTACTTGGG
AAGCTGAGGCAGGAGAAATCACTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATCACGCCATTGCACCTCCA
GCCTGGGCAACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAGATGTTTTTCATTTTTTCATGTTATC
TATCCAAGCACTGTTCCATGGTCAGCAAGTCATATTTTATAATGTGGATTTTCCAAAATAATTATTGAATACAGC
TATTTCTATGGCTACTTTTAGTGTTTTTGTGGTATGTGGTGTGGGAGTGTATGGAATTACCAGTATCTTAAATT
TTCAAAGGAACCTTGGAAGTCTATCACTCTAAATGAAAGTCTGTCACTCTACATGAATTATGTGCTCAAATTTGA
CCAACCTCAGTTTTAAGACACAAAACAGTAATTTGAAGAAGGAAAAATGAAGAGAGTTTCTAGTTTAATGGGTAAA
TTTTTGTGTTGCAATAGTAAGTTTAGTCTTCTTATAATTTCTAAATGAAAAATCATAGGTATTTGTTACCAT
GTGTGAAGATTACTTTGTTAAAAGCAAAAGTGGTCTGTGTGATATGCTAAATGTTAATTACTGATTTTATATGTTT
AAATCACGCCAAACAAATTATGTCTGTGCCATCCAGGCTGTGTGTTAATCTTTTTCTGAGTACTTGGATTGGGA
TAAAGGGCTTGACTATGCACTTTTTTATTAATGAATAAATAGAAAACGTTAGTAACACTTTGTGTTTTCTGTTTG
GCTTTTGTGGGAAGAGAAGCAAGCATCTTTGCCTAGTAGATGTTAACATTGTGTATTAAACAGTTCTTTGTAA
GACCTAACTAAAGACATTCCCTAAGAGAGAACTTAAGTTTTAAGAAAAGTTGTGAGAAAAATATTCATAAAATATG
CAGTATGGGGCCAGTATTCCAGAAGTAGAGTTTCTCTCTTGGAAATTAGATTGCAGTCACATTTCTTGGTTATTT
TCTTTCTCTCTCTCTTCTAGAAATACCAGGTAAAATAGACATTTACTTTGAGGGACTAATATCCAATAGTGTTAA
TTATTTAAGCAGATATATCTAGCTCAAAAGGAACCAGACATGTCACTGTACCAAAAACACACAAAAGTGAAATT
TGCTTCTGTTCTGTGACCTAGAATGTGTCCAGACATTAAAGATCATGAATACTCATATACATGTAAAAATAGTAA
CACTGCTCTGGCATGATTTTGACGTCAGTGTATGTAATAACTTCAGTGTATATTTAAATAGATAAATTTGT
GAAATAACAATTTCTTGGAGACAGTCAACTTTTTATGATTTAATCTAAAGATTGTCATGTACATGTCAACGGATA
TCTGAATCCTCAGTGAACTGTTAAGTTTTTCATTAATGACTCTGCTGCAATACTAGTTTTCTTCTCAGAAAATG
GAATTCAAATAAAATAAGTTTTTTGGTCTTGGAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

REPLACEMENT SHEET

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FIGURE 1732

MHLVDITSTYISFFLHEPSIYLVTSVLNEVFSLGFLVKFLCIP

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FIGURE 1733

TCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTTTATTCTAACTTTTATTTTATCAGTTACACATGAT
CATAATTTAAAAAGTCAAGGCTTATAACAAAAAGCCCCAGCCCATTCCTCCCATTCAAGATTCCCACCTCCCAG
AGGTGACCACCTTCAACTCTTGAGTTTTTCAGGTATATACCTCCATGTTCTAAGTAATATGCTTATATTGTCA
CTTCTTTTTTTTTTATTTTTTAAAGAAATCTATTTTCATACCATGGAGGAAGGCTCTGTTCCACATATATTTCCAC
TTCTTCATTCTCTCGGTATAGTTTTGTCACAATTATAGATTAGATCAAAAGTCTACATAACTAATACTCACAGCT
GAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAACCTTTTATTGTCTTTGGCATTAAACAGTGTTTCAAAAA
ATTTTCTGTGTATACCCATCAGTGATTCAATCCCAAATCTTCTAGAAGCATAAGTGTCTCAATATATTAAACAT
ATTGAATAATCCTTGTTAGAGTTATCCTTGCAAGAGTCCTTAGTGCTCCTTTATCCAATTTGTACTTGATGCCCT
CTAGGCAGGGTGTACAGCTAGCTGTTGCTCTGGTATTTCCCTATAACCTTCTTGGGGATTTCTTTTACCTCCTGTG
TTAGACTCCTGTTTTCTGGATTCCCCCTTTTCCCTCTTTCTTGGTCTACTTTTGTAGAACACAAGACTCTACTA
GCTTCTGAGAANNN
NN
TCATTGTCACTATTGAGAATCTAAATGGCCATTGCGATTCTTTCATCATCTTTATAATTTTACCTTCCTATTTCT
TTCTGTCTTTTTAATGGAGTTTTGGGAGAGAGCAGAGGTAAACATGATTTGAAAAAGCCATGTCTGACCAGAAA
TTCTGTGCTGGCAAGATATGTATTTACCTTTAGGG

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FIGURE 1734

MPSRQGVQLAVALVFPITFLGISFTSCVRLLFSGFPLFPLSWSTFCRTQDSTSFLRXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXETRSHCFIVTIENLNHSDSFIIIFIILPSYFFPVLLMEFWERAENVMI

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FIGURE 1735

AATTTAAATTTGTTTAATGCACTGGAAATAAAATTGGACATATTTCACTGTTTAAAAAATCAGAAACAAAACAA
AGCAAAACCATGAGGGAAAAAACAGCAAATAAGCAACAGGGGAAAAAGCTATGAAAAAATATATTTGTACTG
AATACACATACAACTACATCCCATGAAAGATTAATATCATCAAGTAAGAAAAATACATAGTTTAACTACAA
TGCTGAAATATAAAAGGAACCTGGTAGTTCAATGGGGATGGAGAAAACAGAGCATTCTCTGAGAGCAGAGATC
TTGTCATTATTGCAATTAATGCCCAAACAGGTTAAATGTGGAAGAAAGTATGGAGGAAATAACCCAGCCTTCCT
CATACCACTGGATTTCACATCACCTTTTAACCTTATGCTTGAGCTCCCTTTTGAGAAAAATATTTAAAAACAA
TTGGCTATGTAACAAATTTGTGTGTGTGTGTATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGC
TTGAGAAAGTGGTTTTTCAAGATGTATGTGTACAGTACACACATGGACACGCTTCAGTCCTCTGACTTCCCATGT
GCTACCTCATGTGTTTCTTCTCATGAGGATTTGCAATGGATAGTTGTACAACCTGGGACTGTCAGTGACTCA
TTGGTATCAGCATATGCTAAAGAAGCTCTTGAATCCAATCTTGAAACCTGATCTCCCTTCGTCAACATTCCCCAA
TACCAAACCTGGCCCGTTTACCCATACAAATGCACAGTAAAGGGAAGAACAGCGGTATTTTCTAGCCAACTGAC
TCTATCATTGTTTAAATGTTTGTGCTGGTTTTTTTCTGGTTTTGTTTTGTTTTAGAGCAGGGGTGGGAGTGGCTGTA
ACTTCACAATCCTAATACAGTAAATGTTTTGCATCTTCCATGTTTTATGCAAAAACAGACATTTAAATCAATAAA
TAATTGTGCCCTAGACTGAAGGTTAATGTTTAGGAGAGGAAAAAATTGTTGGAATTTTTCTACATTTTTTGT
GAAGAATCTTTTTTGGAAAGGAAGGATACATATTTTTGTTGTGTAATATTTCTATTTTGAATGCATTTTATG
GTACAAGACTGTTTTTTTGGTGAAGACATTATTTAAAAAACAGTCTTGTACCAATAGTCGAC

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FIGURE 1736

MDSCITWGLSVTHWYQHMLKKLLNPILKPDLPSSSTFPNTKLARLP IQMHSKGKNSGIFPSQLTILSFV

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FIGURE 1737

GGGGGATCATAAATGACAGGTGTGTGGAGGTCAATTGCAAAGGAAGGACAAAACCTGAAAGAGCTATATTTGGTGT
CCTGTAAATACACAGATTATGCACTGATAGCCATTGGGCGATACAGCATGACAATAGAGACTGTGGATGTCGGAT
GGTGTAAGAAATACAGACCAAGGAGCCACCCTGATTGCACAGAGCAGCAAGTCTCTGAGATAATTTGGGGCTGA
TGAGATGTGATAAAGTCAACGAAGTGACGGTGGAAACAGCTGGTGCAGCAGTACCCCCACATCACCTTCAGCACCG
TCCTGCAGGACTGCAAGAGGACCTTGGAGAGAGCCTATCAGATGGGCTGGACCCCCAACATGTCTGCCGCCTCCT
CCTAGCGCTCCTGCCTCGCCTAGTCCACTGGGATCATTACAGCAGAGCAGAGGAGAATTGTACATTTGGGGAGCTG
ATCTCTCGGAAGGGTTTTAACTGTACCTGTCTGTGTGTGTTCAAGTAIGTGTATTTGTGTCTTGTTCATACT
GCATACCAAAAGTGCAGTTGTCAATTTGTTCCCAAGTGAGCTGGCTTTTTTCTTAGAAATTAAGATTATGAAAG
CCACAAACTTTTTAGTTTTAACTTCAAAGGCTTCTTTCTTTAAAAAAATTTATTTTAAATATAGAGTCAAA
AAATTGGATGTATTATTCTGAGCTTCTAATTGCTGCCACTTGGAGATGTCCAAGTAAGAAGGCCTTCTTTTTACA
TGGGATGAATTGTGCACTTCTACTGATGATGACTACAGCAGAAGTGATGTTATACGTACAGGCACTTACACTCTC
TCACATATTCACACGTATGCACATCTACACCAGGGCTCTGATCTACTCTAGATCGTTTCTGACAGAGAAGCCTT
CTTCCAGGCCACTAAGGTAGCATGTTATCCACTGTGGCACTGCCTAACTCCGTGTATCCTCGGGTGGCCAACCTG
CTATCTGGTGGGTGACTTGGGGACTAGAAAGAATAAAGCCTTTTCTAAATTTGTTATATAGAGGCAACAGTCTGA
ACTCTCCTGGCCAGCTCACGAAAGTTAATTATACATTATTCTACAAATGCATTCTGTTGAGCACTAAATATTTTA
GTTGGTTTTATGTTAACATTGTGTTAGCTTTTTATTTCTGGATAGTAACTGGTCAGGATATATTTTAAATGATATT
TGAAACTAATCTTAGCATTGAAGCCACCAATGTAATTAATGGTGTGCAGTTATTTTAAAACTACAGATCATTTTC
ATTATTTTCTTAATTTTGGTAATTATTAAAGTCTATTTCTGAGATACGAGAGGGTAGTCACATTAATAGAAGATT
CATGAGTGAGATATAAGTAGACAATCTTTCTACTGTTGTTGCTCTTTTGGCTTGGCTTGGGTTCTTGAACAGGT
TTTTTGGATATATGCATGTTGTCAATTTGGACTAGTTCTCATGCTACTGCAAAGATCTATTGCTAGCTAATATAT
GAGTTAAGAAAGAAAATTAGAAAATCTGTTCAATGAAATTCTGTTTACACTTGTGAGAAATAAGCATTTCCTTGT
TTAATTAAGGATTGCCAGCTTCAGTTAAGACAAGACCTATCAGTAAATGAATATATGTTTTGATTTAACACATCT
TTACAATTAATTCATAATAGGGACTCAGGCTCAAATAACTGTTCTGTGCTAGATTATAATGAGGACATCAGG
GAGCCTTTTTAAGCTAAAGAGTGATTATCTTTACAGTAGAACTAGAAACAAAACCTAACTTGTGAAGTTGCTA
TTATTTTTTCCCTGAGTGAATATACTGTTATTTGGTCTTTAACAGATATACTGAGGTTGAGTTTCACTTCTT
TAAGTCTCACATTGCTAACATGACATTAGCTGTAAGAAACAAGATAGCTTTACATTTGAATGCCATTTACTGATT
TCTAATGATTCTCTTTTTTTGTAAACAACTGTTTCTTTGATTATGTCAACATGTTTCTGATGTGGCATTITGT
TTAATCCCAATCGGTTAGGAAAATCTAGTCAGTAAGCGCCATGAGTATCTTCCATAACTAAATGGGTTTCTA
ATTTAATTTGAAGGGAATAAAATTTGTGTAAGAAAAAGCTGTTTAAACATTAATAAACTATATTTCTTCTTACAC
ATTGAACTGTATCATTTTCATATCCACTTCCCCACCACTGAAATATCTTATTTTCACAATATTTTAACTGATTTT
AATCCAAAATAATTTATAAGACAGTATGTATAGTAATAGTAGCTTGAGTGAATATGCAAAAGTTTAAATTTTAT
ATATGTCATACTATATTTTAAATAGTTAAAAAAGACAAAAGAAGGGAGAGCCATCTATGATATAGATGGTACCAT
TTCAGTTCAAAGTTGTAATAACCTTTGGAGTGTTACAGTTTGGTTGTCAAATGGTTTCAGAAATGTATAATTGATT
TTTTTAAATGTTGCATTGTTTGAATCTAAAGTACAGCACTATAACATGCTTTAGCTTGGGGGGTGGGTGTGGGG
TGGGGACTTGCACTTATCTCTAAAATGTGACTAATCCAGAAAGCCTGATGCAACATAATCTGGAAAACCTGCTT
TGGTACATTTGTAGAAATCCATAGAAATACCATATCCAGCCTCAAAGCATTAACTCTCNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNGCCAGAAAAAGCATCACCTTGAGTGGTCCTGTGATGGTTGTTGAATGTGTTCATTAGA
TGCTTTGAAATGAGGCTTAAATAATTTTCTGGGCAATATAGAGTTTCTTTTTTTGCTTAGAATGTCATAAAT
ACATGTGAACACGTTTAAATGCAGGGCTTTTTATTCTCTCCAAAATGTCAACAGTATTTTCAAGATAAAGACTATG
AAATATATTGCTGTAGTGGAAAATTCTGGTCCTTTGTCTTTAATGTCTTTTTGAGTGGATAAAGAAAATTCACCC
GGTTTGTAGTTTCTATATTTCTGTGAATCTTGACCTTGCAATGGGTTGCAATAAAAGAGAAAC

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FIGURE 1738.

GIINDRCVEVIAKEGQNLKELYLVSKITDYALIAIGRYSMTIETVDVGWCKEITDQGATLIAQSSKSLRYLGLM
RCDKVNEVTVEQLVQQYPHITFSTVLQDCKRTLERAYQMGWTPNMSAASS

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FIGURE 1739A

TTAGAGGTCCTTTCTGCTTTATAACATTAGGTTCTTCTTGAGGCCCTTAAGCATTGCTAAACAGGTTCAAGTA
AGTTTAGTAAAGTTTCATTACTGCCATTGATTCAATTATCAAACCTGCTTTTGACATATAAAGAATTCTTCAGAT
GCATGGTTTTCTATTAAACAAGATCCAATGCCTTCCTTTTATTTCCCTTCAGTTCAACATCTAATATATAAAGATT
GCTCTGACTACTACGCAATAGGCAAAAGAAGCAGTGAGACCTACAGAGTTACACCTGATCCCAAAAATAGTAGCT
TTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTGGACAGTGCTGCAGGCACGTCTCGATGGGAGCACCA
ACTTCACCAGAACATGGCAAGACTACAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATA
AAATTCATCTTCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGCAACTAT
ATGCCTTGATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATAATGGCA
CAGCTGGAGATGCATTACGTTTCAACAAACATTACAAACCAGCATCTGAAGTTTTTACCACCTCCAGATAAAGACA
ATGATCGATATCCTTCTGGGAACGTGGGCTGTACTACAGTTTACAGGCTGGTGGTTTGATGCATGTCTTCTGCAA
ACTTAAATGGCAAATATTATCACCAAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTG
TAAGTGAGGCACACCTGGTGGCTACAAGTCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGCACTTTA
AGCCATAAATCACTCTGTTTCATTCCCTCCAGGTATTCTGTTATCTAATAGGGCAATTAATCCCTTCAGCACTTTAGA
ATATGCCTTGTTTTCATATTTTTTCATAGCTAAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTG
AAATAAAGCTGAAAAACAATGCATTTTTAAAGGAGTCTTTGTTGTTATGCTGTTATCCAATGAACACTTGCAAGC
AATTAGCAATATTGAGAATTATACATTAGATTACAATCTTTTAATTTCTATTGAACTTTTTCTATTGCTTGT
ATTACTTGCTGTATTTAAAAAATAATTGTTGGCTGGGTGTGGTAGCTCACGCCTGTAATCCAGCACTTTGGAAAT
GTCAAGGCAGGCAGATCACTTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAAACATGTGAACGCTGTCTCTATT
AAAAATACAAAAATTAGCCGGGCATGGTGGTACATGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACCTGAGAGGAAGAGGTTGCAGTGAGCCAAGACTGAGCCACTGCCTCCAGCATGGGTGACAGAGAA
AACTCTGTCTCAAACAAAAAATAATAAATTTATTAGTAGGCTGGATTCTACACAAAGTAATCTGTATTTGGG
CCATGATTTAAGCACATCTGAAGGTATATCACTCTTTTCAGGCTATAATTATTTGGGTAATCTTCATTCTGAGAC
AACTTAATCTATATCATTACTTTGCAACAGAACAACCTACAGCATTTTGGTTCCAGACTAAGGGAACATAAT
ATCTATATAATTAACTTGTTCATTTATCATTATGAATATAAAATACTTGTCAATTTAAACCGTTTAAAAATGT
GGTAGCATAATGTCACCCCAAAAAGCATTAGAAAGCAATGTAAGTGTGAAGACCAGGTTTAAAGGTAATTCAT
TTATAGTTTATAACTCCTTAGATGTTTGATGTTGAAACTGCTTTAATCATGAAATTAATCTTCTCTGCTCTGTG
TGAACAATAGCTTTTAATTTAAGATTGCTCACTACTGTACTAGACTACTGGTAGGTTTTTTTTGGGGGGGGTGGGT
AGGGATATGTGGGTAATGAAGCATTACTTACAGGCTATCATACTCTGAGGCCAATTTTATCTCAAAGCAATAA
TATCATTAAAGTGATTCACTTCATAGAAGGCTAAGTTTCTCTAGGACAGATAGAAAACATGAATTTGAAATATAT
AGAACAGTAGTTAAATACTATATATTTCAACCTGGCTGGTAGATTGCTTATTTTACTATCAGAACTAAAAGA
TAGATTTTTACCCAAACAGAAGTATCTGTAATTTTATAAATCATCAATTCTGGAATGCTATATATAATATTTAA
AAGACTTTTTAAATGTGTTTAAATTTATCATCTGTAAGGATCATCTCAGAGAGAACAGCAGTATTCTGCGTA
TTTTTAAAAATGCTCTAGAGTAACATTTGAAGTAATCACTGTAGTGATGCCAGTCTTAGAAATAATTTTTTTA
ATTTCTGGTGCTGTTTCTAATACACTAACCAAGTTTTCAAAATATATTTACAAAGATGCATCTTTACCCATTAT
TTTAAATGATTAAGGAGGATAGTTGCTTCAGGTAACAAGCTAATTTTTCAAAATATTAGGCCCTTACAGAACTAT
TTAGTCAAAAAGTAAGATATTCCTTTAAATATATAACCCAAAGCTTTCAGTTAAACATGATATATCACAAATAC
TATTAATGTTAAAGAGAAATGCAATAGCATTAAATGATGACCAAAATGTAAATATTGTAGATTTCAAAAGC
TGTGCTCTATTAGGTGGGATACCAATGTAAATGATGTAAGTACGTTGTTTTTACTTTTTTACTTTTTAAAAA
AGACTAAAAACGTTTTGATATTATACAATGTATTGTTTCAGATAAGGTCATTGTCAATTTAGTATATATAATTAA
TATATGTACAAGTTAAGTAAATTCCTGTGAGTAAAAATGGACTATCACAAAACATAGTTCTAAAGAAAGGTAT
ATGCTCATATACACGGTGTCCATTAAATTTAATGGGAAGTGGTAACTTCAGGAGAATTTGGCAAATAATTCAT
TAATCCATGTAAATATTCAAAGCTTGTTCTATCCACATTATTTCAAGGGATCACTTTATTTTTTCAATATACCTT
CACAGCACTTTTCTAGTAAATCTGTAAACACAGAAATCCATTTTGAATCATTTTCAATTTACCAATAATCTAG
ACTTTTATAACATTAAACATGTTGATGGAAATAGATTACATCTGCTAGAACCTTTGCCTTAACATTTACCAAT
ATATGCTAATATTATAAATATGGATTGACTGTTTACAACATTAGAATCTTGTCTTGGTTCCATTTTGATGGCT
AATATTTGTTATCTAATTAAGACTATTTCTGAGGTCATGATTACTTGAAAATATTGACTAAAACCTGGTCCCTTA
GAAATTCAGGTGGAGCTGATTTACCTATGACTGAGGGGAAAAAATAATCAATTTTACTGATAATAGTAATGCT
CCAAATGAATTAATGACACATCTGTTCAATAAATAAAGAGCTTAAATATACAAAACATAAGAAATCTGGGCAACA

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FIGURE 1739B

AAACTTGTTGGTCTTTACTTTTGAATAGCTACCCAAGAAAAGGTTTTAAAGGTAAAAGTTATGAGTAATGTCATCA
CAATAAGCTCTTGTTTAAAAATCTTTCTTTTATGTATAATTAGGTTTATGTTTCATGTCTTTTTAAACCTTAT
AAAAGATTTAATTATCACATCTATTCTTCAATGTGGAAATATTAAATATTGTTGGTTGTAAAATAATTTTATGT
ACTTACTTGTGTCTGAAAAGTTGTAAATGCTTACCTCAGCTATACAATATCTGTGACTCTGAAGACTTTAATGA
GTACTATTTTATTAAACAAGAAGTCAGAGGCAAATAGAGGAACACCATTATCTTACTTCCCTCTAGAATACTGTTG
AAACATTTGAAATACAAAAGTTTCAGTTTCATTTTGTGGCATTCAACTTCCTCTCCTCTTTTTCCGTTATTAGTG
TTGCTGCTCTGGTTAGCC

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FIGURE 1740

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATTGAAGGTATTATTTATTTGCAGCTCATCTTAAGTGACA
AAATTCATACAGAAGACTATAACAGAAATCATATTTAATATATTAAAATTAATACTTCAAATATCTTTCACATT
AAGATGATTATCTATTGTGTAAATCTTTCCTAGGTATGTGTGTCTGTTTCTTGATGTGTAAACCAAACTCTGAA
ATATTCTCTTGATCTAACTTTGACTTTTTAAAACTGACATTGTATTGAATTTACATAATTCTCAATCAGAAAAA
AATTACTGTCAGACTGCAATGCAAGTCTGCCCAATGAAGGCAGGAGGAGGGATGGCTGGAAGTGTCTCAGGGCA
CTCTGAAAGTTTAGCAAGCTTATCAAGGAGTCTCAAACCTAAAGCTGGCCAAAACTTCAGCATAAAAACTATCC
TGTCTGTGATTATATATATTTATTACCAAATTTAATAACAAAAACCCTTTGAACCAGGTAATTTATCTAG
TGTGAAAAGAAATTAATCACATGGTCATATACTGGCTAGTGTCTCTAAAAGTAGACATTAAAATATTTTATAAT
TGGAGGGAATCTTTGGAGATTAGTGGCATCTAATCTTGGGGCCTCAGACACCCAAAATCTATATATTGACCAGTG
GAAGTTGATGATTTGTTATCAAATTTCAAAGCACCTAATGGAAACCCCACTTCATCTCTGTGAAGATTTTCAGTT
CCTTTACAGTTATTTGAAATTTATTTCAATCTGTGGAGCCACTTCAGAACTCCAATGGGCCTTTGCAATATTAA
AATGTGGAGAATGCATTAATCATTATTTAATCAATGAGTTTAAAAAATAGACAAAAGCTTCTGAAACATGGGACT
GAAGTAGGCGGAGCATTATAAAAGCCTAAGGTAATTTGGTAGTGAAGAGTTGGAAAACTTACTTAGTCTAATATT
GTAATTTACAGATAAGGAACTGAGAAGATAAATAATTTATTCAATATCACTCGATGGTTCATTAGTAGAAGAGC
CAGCATTATGATGTACTCATTGTACTCTAGGAGTTGTTAAAAGGCACTTAATATCTTCTTTTCTGGGTGTTA
GCATTTTTCAATTTTTTAAATCATGCTATTTAGTGTCTTAACTTTGAAACCCAAATGGTTCACATTTTGTTTTT
GGATTGCTTTGGGAATGAGTATGTACTGTTAGAGAAGGGCCCAATCCAAACACTAGAAATTTAATAATTTCTACT
CCCTCTGCTGGCCAACTTTCCAGTAAAATGGATTTTAAAAAAGAGAAAAAAAATCTAGCGGTAATTTGAAACAA
AAACAAAACCTTTAAAAAGTGTCTTCATTATAAAGAGGTGCCATGCATAAAAGCCTAGGTAGTTTCAAGGTCCAT
TCTTCCATTCTCATGATTTTAGGGTTATCCTCATTAGATCTACTCTAGTTATAATAGTACTTTAAACAGAGCA
CAGAATTAACCATTAGTATGTGAATCTGCAAAAAGAGAAGTTGTTTACTCTTCTACAGTTTAGACTTCAAT
GTGCATACTAAATGCATAACATTCGTATCAAATAATTAACATTTATATACAATTAACAAATAAGGACAAATTTTA
TACAAAACCTTCTACTACTGCTATAATTTTTGAAAACATTTAACCCTAGCAAGAGGTAAGACAGCACTGCCTTT
TTAAAAGACAGGTCATTGAATAGAGAATATAAGATATAACCATAAGTAGGAGTATAACAATAATTTTTCTTCT
TGTGGAATGTTTTTAAATTTCTTTCTTATATTATTATCTTCTTCTTAGGTTTTTTTAGACAGGTCATTTCTTCT
GAATGATTTTCTTTTCTTTTATTTTATTTTTTGAAGGAGGATTATTACTGGTGGTCTAAAAGAAGTACCTT
CAACTTCTTCATAATGTAGCCAAAGCGGAAATGGAATATTTAATAATTC

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FIGURE 1741

MKAGGGMAGSVSGHSESLASLSRSPQTKAGQKLQHKNPVLCVLYIFITKFNKQKPLLNOVILSSVKRN

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FIGURE 1742

GCTGTGAGTTGGCGTGCTAGTGGGATGGCAGATGAGGAAGAAGACCCACGTTTGAGGAAGAAAATGAAGAAATT
GGAGGAGGTGCAGAAGGTGGACAGGGTAAAAGAAAGAGACTTTTTTCTAAAGAATTGCGATGTATGATGTATGGC
TTTGGGGATGACCAGAATCCTTATACTGAGTCAGTGGATATTCTTGAAGATCTTGTCATAGAGTTTATCACTGAA
ATGACTCACAAGGCAATGTCAATTGGAAGACAAGGTCGAGTACAAGTTGAAGATATCGTCTTCTTGATTGAAAG
GACCCAAGGAAGTTTGCCAGGGTTAAAGACTTGCTTACTATGAATGAAGAATTGAAACGAGCTAGAAAAGCATT
GATGAAGCAAATTATGGATCTTGACACTTTTTGTAGTTTCCGAAAATTACCATCTGGGGAAACCATATATAATAA
TTGTATATTTTCTAAAGTAAGATTCTGATATCTAGCCGAGATCGCACCCTGCACTCCAGCCTGGGCGACAGAGC
GAGACTCCGTCTCAAAAAAAAAAAGAAAGCAAGTTTACATGAATAATGCTGTGTTGGAAGGCTTTTTGATTTA
AAATCTTTTCGGATTTATAACATCCTGTTAAGTTTTAGGAGAACCCGTTTCCCAGAGCAGATTCAAGCTTCTAA
AAATAAATGCTTTCAGTAGCAGGAATGGCATTGTTTTAAAAAGCTGATGGCAGGGTAAGCATTGGGGTTAGTGTTT
TATTAACATATTTGTAAGTACTTGTTTCATTGTGGAATGTGTCCTTGACTAAAACCATACGTGGCTATGGAACC
ATGTTTGTAGTTCTGAATACACAGGTTTGTGTGTATTTACTCTATGTATTAAATTATTATTGCCCTTAGTTTTAA
AGTAAGGATTACAATTGGATTTAAGTAGATCACTGAATGTTATTGTTTATGAACTTAACTTTTGTATGCTGCT
TATAAACATGATCTATAAATCAGTGCTTGGGAAAATTTACTTTCTTAATCTACTGATACAGGAATAAAATATGA
ACAATTAACAGATAAAAAAAAAAAAAAAAAAAAAAAAAA

REPLACEMENT SHEET

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FIGURE 1743

MADEEDPTFEEENEEIGGGAEGGQGKRKRLFSKELRCMMYGFDDQNPYTESVDILEDLVIEFITEMTHKAMSI
GRQGRVQVEDIVFLIRKDPKRFARVKDLLTMNEELKRARKAFDEANYGS

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FIGURE 1744

GGCACGAGGGGGCGGCGGGTCACGTCGGCCGGGCATGGCTGCATGGAGCCCGGCCGCGGCAGCGCCTCTCCTCCG
CGGGATCCGCGGGCTTCCACTTCACCATCGGATGTTTGCCACTCAGACTGAGGGGGAGCTCAGAGTGACCCAAAT
TCTCAAAGAAAAGTTTCCACGAGCTACAGCTATAAAAGTCACTGACATTCAGGCACTAAAAGAAGAAATCAAAG
AGATGCATGGATGCGGATATTTACCTCTGTCCCCAAACGCTGACCACGCCCTGGCTGCATAGATGCTGCTGCTT
AAGACCTTGGATGAACITCACTGACATCATTCTTCCCTAAGCAGTCACCAAAAAATTTATATATTTTGCTCATAT
ACATTTCCATATTATAATTATAGAAGATGTATAATCTATTTAGATGTTAATTAAAGGAAACAAACAACCTGAAGCT
TTTGAAGGGCC

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FIGURE 1745

ARGGGGSRPVGMAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRATAIKVTDISGTRRNQR
DAWIADIYLCPQTLTPWLHRCCCLRPWMNFTDIILP

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FIGURE 1746

GTGAGCGGCAACATGCGGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAAG
GATGAAGAGGACGAGGTCAATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAAGATTCAATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTTCTATGAGAAGGCAATTCTCAAGTTCAACTACTCAGTGCAGGAGGAG
AGCGACACTTGTCTGGGAGGCAATGGTCTTTTGATGACGTACCAATGACGCCCTTGCGAACTGTGATGTTAATT
CCAGGCGACAAGATGAACGAAATCATGGATAAACTGAAAGAATATCTATCTGTCTAACCCATTTCCAATGGACAG
TGATGGGCTTGTTTTTGTAAAATTACCAGAAAACCTCAGTGGAGATTTACTGAAAACTCAGACTTTATTCAGATT
AAGTTCCTCTACAAAAAGTAGGGTTCTGTCCCATGTGTCTCTGACACATTTACAAAATACCAGTTTTTTAAAATT
TTGGTCAAATTATGAGTGGTTGATTTAAAACTTTTCCAAGAAGAAGAAAAGCATGGAGTCGTAATTTAAAGAAC
TCAATAAAAACCTTCTATTTTTTATTTTTAAAATAATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1747

MASRSKRRAVESGVPQPPDPPVQRDEEEKEVENEDDDSDKEKDEEDEVIDEEVNIEFEAYSLSDNDYDGIK
KLLQQLFLKAPVNTAELTDLLIQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISKT
FVEAGKNNSKKKPSNKKKAALMFANAEFFFYEEQGKPEVLGGPDTRRGLEPVP IQHNGWSVPPVLE

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FIGURE 1748

ATGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTCATCACTCATGCACCC
CCAGGGGAATTTAATGAAGTATTCAATGACGTTTCGGCTACTACTTAATAATGACAATCTCCTCAGGGAAGGGGCA
GCACATGCATTTGCCCAGTATAACATGGATCAGTTCACGCCTGTGAAGATAGAAGGATATGAAGATCAGGTCTTA
ATTACAGAGCACGGTGACCTGGGTAATAGCAGATTTTAGATCCAAGAAACAAAATTTCTTTAAATTTGACCAC
TTACGGAAAGAAGCAAGTGACCCCGACCCAGAAGAAGCAGATGGAGGTCTGAAGTCTTGAGAGAGAATCCTGTGAC
AGTGCTTTAAGAGCCTATGTGAAGACCATTATTCCAACGGCTTCTGTACTGTTTATGCTAAAACCTATCGATGGG
CAACAGACTATTATTGCATGTATTGAAAGCCACCAGTTTCAGCCTAAAACTTCTGGAATGGTCGTTGGAGATCA
GAGTGGAAAGTTCACCATCACACCACCTACAGCCCAGGTGGTTGGCGTGCTTAAGATTACAGGTTCATTATTATGAA
GATGGCAATGTTAGTTGGTTAGTCATAAAGATGTACAGGATTCTAACTGTTTCGAATGAAGCCCAAACCTGCC
AAGGAGTTTATTAAAATCATAGAGAAATGCAGAAAATGAGTATCAGACAGCAATTAGTGA AAAACCTATCAAACAATG
TCAGATACCACATTCAAGGCCTTGCGCCGCCAGCTTCCAGTTACCCGCACCAAAAATCGACTGGAACAAGATACTC
AGCTACAAGATTGGCAAAGAAATGCAGAATGCTTAAAGGCTGAATGTAGGATTCTTCAGTATGTGGAAAGACAAG
GATTCAACGTGTGGTCATATGATAAAATAAGTGATTTATAACAAGAGTGATATTTTGCTAGGGCTTTCAAAGTTA
ACCGGTTTTCTAGCCTCATGGAATACTGTTGAACCTATAGCGTTGCTTGATTCTTTTGTGTTCTCTGCCTTGTA
ATTTCTGTTACTGTATATCTACGTGTAATCTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTAA
TTCTGCCACATTTAATGTTGGTGAGAGAGTGATCTATCCTAATGACATTACTGTTTAAAAAGTTTCTAGCCA
TGAAGCCCTGCTACTGATTTAGACAAGGTATTATGGTCATTACTTTGTACCCCTATCCTTCCAAGCACTTCTGGT
ACTTCAGTCGTTTTTACTGATCCACCAACACCTAAAGAGGCTATGCTACAGTCTCTAGCTAAATGGAAGACACAT
TCATCCTTCTCCCTCTGACTGCTTTGATCATCATTTATTGCATCGTCATATCATATTTATCGCATCTCATAACTA
ACTTCTAAAGTTTGGATTGGGACTTTTCAGGTCCTTTTGGAGGGCAAAGGAAGTTCCAGCTTCTCTGGGGAAC
TTGTTTTTAAATCCAAAGACTTGAACCACATTCCCTGCACATGAACATGTTTGCTTTTATCCCTTCTCTCATTGG
CTCCTTCCCATCTTAGTACCATTGTAGTTATACATCTGCATTTTTTAGAAGCATTTTACCCATTTATTTTTTTAA
ACATTCAAGAAGTCTGACGTACTGTGGATGTAGAGTATAAAACTTGAAAAATGCAGATGTTGAAGGAATAATAG
GTATCTTGCTTTAATACTTTATGGCAGGATTGTACTATAAGCAAATGAATTAAACAGCTATGTAAATCATAAA
GAAAAACTAAAAATGAACCAAAGTGAAGGATAACTTCCAGGCAGTATCTTCTATTGTAACCTGTTATTTAAGG
AAATACTAGTGATTTCTTCTAAATAGGATGTAAACTTCTTCAAATTACTCTCCTCAGTCTGCCTGCCAAGAAC
TCAAGTGTAAGTGTGATAAAATAACCTTCCAGGTATATTCCGCAGGTATGTGTGTAATCTCAGAATACACAGG
TGACATAGATATGATATGACAAGTGGTAATGGTGGATTCAATTTACATTGTTTACACTTCTATGACCAGGCCTTAA
GGGAAGGTCAGTTTTTTAAAAAACCAAGTAGTGTCTTCTACCTATCTCCAGATACATGTCAAAAAGAAAAGGTG
TTGTGCTCCGTTTTGTTTCTGCTCAGTAATATAGTCAAGCAAGTTTGTTCAGGTGACCCATTGAGCTGTGTAT
GCATTTTTGTTTATTTCAATAAAATATATTGTATTATTTGTCCTTCATACTATCCATCCATACCACACTATCTT
CTGTATCAGGTAGTCTAATAGAAATATACCTGTTTTGTTCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1749

MADFDDRVSDEEEKVRIA AKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAF AQYNMDQFTPVKIEGYEDQVL
ITEHGDLGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGFCTVYAKTIDG
QQTIIACIESHQFPKNFWNGRWRSEWKFTITPPTAQVVGVLKIQVHYEDGNVQLVSHKDVQDSLTVSNEAQT
KEFIKIENAENEYQT AISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 1750

GCAGTGATATAAATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGT
GAGTGTGTGTGTATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCATAGCCTCATGCTTAGGACTACCCATG
AATGTTGTGGAATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTG
GACCTGGAGACCATCCCCCTTGGAAAGACAACCCAGAGATGTTTCAGCATCCTGTATCTACACGCATCCTGTATCTA
CACGTGTATTTTGTAGCTGTCACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTCACCTTAA

TGGTGAAGTAATTTAAAAATATAAATCCATTGAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAACT
CATCTGAATCATCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAATGGAGTACAA
GTAGCCTTTGTTTTCTGCATAAATGGACTTGTTGAATGCCAACAATATATGCAATTCATATACTTTTGGAGAT
GAACGTAGATATGTGTGTGAGCTTTGAGATGGTGTGTCTGGATTAATACTTTGTCTCCCAATATCACAGAAAA
TACATGCCAGTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACC
TGGAAGTTCTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAGAGCATCAGCCTTCTAGAATCGGA
GCTCCGGAGTGTGAAGATTGAGTATTGATATGATATGTATACCAAACTCCAGCCAATTACTGCCATTTTTTATA
ATCTGAGTGGCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAA
ATCAGGGAAAAATGAGGAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAA
TATTTATTACATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTTG
GGGACCTTAATATATTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTG
ACTCTTCTGAGCAGTTTCTTTTTCCAGAGGTAAGGGTAGGAGGCCAATTTCAGGATCTGGGTCTAAGCCCGTGG
GCAAGCCCTGGCCGAGTGAGCTCCAATGCTAATCATGTCCGATCTCTAGAGCAGTGGGAACTACCCCGCTGC
ACCAAATCAAGTAGCTTCACCTTGTGTATGCAGGCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCT
GGTGGGTTGAAAAACGTTCTTATTTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCGTTCTGAGACCT
CTTGATTCAATCTGTGAAGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACT
TAAATTCTGACCCATAAAGGAAAGTTCTAGAAGCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGC
ATTGATACACACTGAAGAGTGCGTTTATTTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTC
AAATTAGAATGTATAAGGCATATTATAATTTAGTTTCACTGAAAAAGAAATTAACAGAACATTGTTCCGGTTTAC
ACGTTCCAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTCTATTTTGTTTTAAATTTGTCAAGGTATTTTT
CTTCCCTTCATGAACCTTAGGTACACATACTTATGTCAATTTATTTATGGTCTTTTATACCTAGTTGTAAATTT
GTAAAATAGCAAACTAAATGCAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1751

MCVHRCECVCMRACLCAGVCMCIASCLGLPMNVVECYTWRVLVVFHQFQDEELHDTVDELETIPLERQPRDVQHPVS
TRILYLHVYFVAVTLTLIRILQLWTEAFSP

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FIGURE 1752A

CTCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCTGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTT
ATATTCATGACCTACTGGCATTGCTGAACGCATTTACTGTACGGTTCCCAAGGACCTATATGTGGTAGAGTAT
GGTAGCAATATGACAATTGAATGCAAAATCCCAGTAGAAAAACAATTAGACCTGGCTGCCTAATTGTCTATTGG
GAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTTCAGCATAGTAGCTACAGA
CAGAGGGCCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCCTTCAGATCAGATGTGAAATTGCAG
GATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCC
CCATACAACAAAATCAACCAAGAATTTGGTTGTGGATCCAGTCACCTCTGAACATGAATGACATGTCAGGCT
GAGGGCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCTGAGTGGTAAGACCACCACCACC
AATTCGAAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTTC
TACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCACTCCAGAACTACCTCTGGCA
CATCCTCCAAATGAAAGGACTCACTTGGTAATCTGAGGACCATCTTATTATGCCCTGGTGTAGCACTGACATTC
ATCTTCCGTTTAAAGAAAAGGGAGAATGATGGATGTGAAAAATGTGGCATCCAAGATACAAACTCAAAGAAGCAA
AGTGATACACATTTGGAGGAGACGTAATCCAGCATTTGGAATCTGATCTTCAAGCAGGGATTCTCAACCTGTGG
TTTAGGGGTTTCACTCGGGGCTGAGCGTGACAAGAGGAAGGAATGGACCCGTGGGATGCAGGCAATGTGGGACTTAA
AAGGCCCAAGCACTGAAAAATGGAACCTGGCGAAAGCAGAGGAGGAATGAAGAAAGATGGAGTCAAAACAGGGAG
CCTGGAGGGAGACCTTGATACTTTCAAATGCCCTGAGGGGCTCATCGACGCCTGTGACAGGGAGAAAGGATACTTC
TGAACCAAGAGCCTCCAAGCAAATACCAATTGCTCATCTTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGT
CAGTTCCTGCAGAAGTGCCCTTTGCCTCCACTCAATGCCCTCAATTTCTTTTCTGCACTGAGAGTCTCAGTGT
TGGAACGGGACAGTATTTATGTATGAGTTTTCTTATTTTATTTTGAAGTCTGTGAGGTTCTTGTGCTATGTAGTG
TGGTTGTGAATGATTTCTTTTGAAGATATATTGTAGTAGATGTTACAATTTTGTGCGCAAACATAAATTTGCTGTCT
TAATGATTTGCTCAGATCTAGTAAACATGGAGTATTTGTAAGGTGCTTGGTCTCCTCTATAACTACAAGTATAC
ATTGGAAGCATAAAGATCAAAACCGTTGGTGTGATAGGATGTCACCTTTATTTAACCATTAACTACTCTGGTTGAC
CTAATCTTATCTCAGACCTCAAGTGTCTGTGAGTATCTGTTCCATTTAAATATCAGCTTTACAATATGTGGT
AGCCTACACACATAATCTCATTTTCATCGCTGTAACCACCTGTTGTGATAACCACTATTATTTTACCATCGTAC
AGCTGAGGAAGCAAACAGATTAAGTAACCTGCCCAAACAGTAAATAGCAGACCTCAGACTGCCACCACTGTCC
TTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTTCTTTTATTTCAAAAACCAATTTATTAAGTGCCCTT
GCAATATCAATCGCTGTGCCAGGGCATTGAATCTACAGATGTGAGGCAAGACAAAGTACCTGTCTCAAGGAGCT
CATAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGTGTATAGCATAAGGATGATGC
GAGGGGAAAACCCGAGCAGTGTGCCAAGAGGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAA
ACATCTTAATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCCGTACTTAAATAAACCTGAAAAATAACACTG
GAATTCCTTTTCTAGCATTATATTTATTCCTGATTTGCCTTTGCCATATAATCTAATGCTTGTATTATAGTGTCT
TGGTATTGTTTAAACAGTCTGTCTTTTCTATTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGATTCAA
AATTCAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCCTCCAAGCCATTCAAGTTTCCTTTCCAG
AAGCAACTGCTACTGCCTTTTCATTCATATGTTCTTCTAAAGATAGTCTACATTTGGAAATGTATGTTAAAGCAC
GTATTTTTTAAATTTTTTTCCTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTT
AGTGTCTCTATATAGCAGATGGAATGAATTTGAAGTTCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAG
TTATCTTTCCCATAGCTTTTTCATTATCTTTTCATATGATCCAGTATATGTTAAATATGTCTACATATACATTTAG
ACAACCACCAATTTGTTAAGTATTTGCTCTAGGACAGAGTTGGATTTGTTTATGTTTGTCTCAAAGGAGACCCAT
GGGCTCTCCAGGGTGCCTGAGTCAATCTAGTCTTAAAGCAATCTTATTATTAACCTCTGTATGACAGAATCAT
GTCTGGAACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACCTTTGATGCTGTACTTGCAAAATCACATTTT
CTTTCTGGAATTTCCGGCAGTGTACCTTGACTGCTAGCTACCTGTGCCAGAAAAGCCTCATTGCTGTGCTTGA
ACCCTTGAATGCCACCAGCTGTATCACTACACAGCCCTCCTAAGAGGCTTCCTGGAGGTTTCGAGATTGAGATG
CCCTGGGAGATCCAGAGTTTCTTTCCCTCTTGCCATATTTCTGGTGTCAATGACAAGGAGTACCTTGCTTTG
CCACATGTCAAGGCTGAAGAAACAGTGTCTCCAACAGAGCTCCTTGTTATCTGTTTGTACATGTGCATTTGTA
CAGTAATTGGTGTGACAGTGTCTTTGTGTGAATTACAGGCAAGAATTGTGGCTGAGCAAGGCACATAGTCTACT
CAGTCTATTCTAAGTCTAACTCCTCCTTGTGGTGTGGATTGTAAAGGCACTTTATCCCTTTTGTCTCATGTT
TCATCGTAAATGGCATAGGCAGAGATGATACCTAATCTGCATTTGATTGTCACTTTTGTACCTGCATTAATTT
AATAAAATATTCTTATTTATTTTGTACTTGGTACACCAGCATGCCATTTTCTGTTTATTTTGTGTTAATAA

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FIGURE 1752B

AATGTTTCAGTTTAACATCCCAGTGGAGAAAGTTAAAAAA

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FIGURE 1753

LEAPHQPRFCPPAGHSRKMRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYW
EMEDKNIIQFVHGEECLKVQHSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA
PYNKINQRILVVDPVITSEHELTCAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIF
YCTFRRLDPEENHTAELVIPELPLAHPNERTHLVILGAILLCLGVALTFIFRLRKGRMDVKKCGIQDTNSKKQ
SDTHLEET

[illegible]

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FIGURE 1755

MTDFKLGIVRLGRVAGKTKYTLIDEQDIPLVESYSFEARMEVDADGNGAKIFAYAFDKNRGRGSGRLLHELLWER
HRGGVAPGFQVVHLNAVTVDNRLDNLQLVPWGWRPKAETSSKQREQSLYWLAIQQLPTDPIEEQFPVLNVTRY
NANGDVVEEEENSCTYYECHYPPCTVIEKQLREFNICGRCQVARYCGSQCCQKDWPAAKKHCRERKRPFQHELEP
ER

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FIGURE 1756

ATGAACTAATTTATTTAGGCTTAATCTCTAAAATTTGAGCTGATCTTAACCAATGAAATTTCAAAAACAAAAAC
TGTAATTCAGTCTACAATTGAATGGAATTCAGTGTAGACCAGTACAATGGAATGTACTGGCTGAGATGGGAGGGT
CCCTTGAGCCAGGAGTTGGAGGCTGTAGTGAGCTGTGATGGTGTCTGTGAATAGTGACGGCACTCAAGCCTAGG
TGACATAGCAAGATGCCATCTCAAAGAAATATAGATATATAACATAAAATAAATAACTTTATACATTTCTGGAG
GAAAAGTACTCTGTAAATTCAAGAGATCTGAATCAAATTACTCAACCTTTTGAATTTGATCCTCTACTGTAATA
CTCATATGCTAGATTACTGAATTTTCAGAGTGAAAAAAATGACAGGGTAATATATAGGCCATATTATAGTGAA
GATCATAAGTATAAATGTCCTCGTTTAATCTTTCCATATTGAGGACAGCCTCTGCATATAAAAAATGTTTATTGGG
AGAAAAATTATTTTTAAACTAAATTTTATAGTAGTCTCCATTACTGGCAATTAAGGAGCAACCCACAAAAATG
TCATTATGTGGTTCTTTGATTAGGCATAAAAAGTATTGCAACAGCTTTTCTATTCTTTGGAATATGAATCTTT
TTAATGTCTAAAGTTAACCTGCAACATTTTCTAGTAGGACAAGTCAATGTAAATTAGGTAATTTTTGCCTGTTTT
ATACCTTCTGTTGCATTTTGTTCAAATGAAAACATTTTTTAAACATGATTGAATTTTTACTTCTCAGATAATTG
GTTTGAGTGTGGAATTTCTTTTTAACACTTTGATATGTAAGTTAGTGTAATAATACTTTTATAACACTACTA
GGCTTTATATTTTTATGGAATGTTTTAAATTTGAAATTTTGAAGTGTTAATTTAGCAGTACTTTATCATTATG
TGCCAATACTGACAAGAAAAACAATTTTTATGTATTTAATATACTATGCTATTCAATAAATTCTATTTTTAAAT

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FIGURE 1757

MVFNKFYFK

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FIGURE 1758

TTTTTTTCATTAAAAAATAGTGCTCTTTATTATAAATTACTGAAATGTTTCTTTCTGAATATAAATATAAATA
TGTCAGAAAGTTTGACTTGGATTGGGATTTTGTTGAGTTCTTCAAGCATCTCCTAATAGCCTCAAGGGCCTGAGTA
GGGGGGAGGAGAGAGGACTGGAGGTGGAATCTTTATAAAAGACAGAGTGATTGAGGCAGATTGTAAACATTATTA
AAAAACAAGAAACAAACAAAAAAATAGAGAAAAAAACCACCCCAACACACAACCTGCCCTGTCCAGCCCAATACCT
GACACAGAATACTTTGTGTTTGTTTAGTTGCCCCCCCCACATAA

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FIGURE 1759

AAAAAAAAAAAAAACC GGCTCGCGGCGCGTGAGGCTGCTCCAGCCGCGCGGAGTCAGACTCGGGTGGGG
TCCGCGCGGCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCGCGCGCGCTTTGCCGCGCGCAGCCCGGGGCGAGGGCGCGGGGACCGCGGCTTGGGAGA
CCGGCCGGCGCCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCTGGAGCGCGCGCCAAAGCGGCGCGCA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCGCGCTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCCGCGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCCGAGGCGCGGGCGCGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCCGAGCACCGTTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTTGGGCTCTACTCAGC
CAAGAATGCCACGCTTGTGCGCGCGCGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGGAGGCTGCGGCACCCCATCCAGGTACGCCGCGGCTCCTCAGTCGACCCAGGACGC
GCTGGAGGGTGTGTGCTCAGTCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCAGCAGCCTGTACAGGAACATCCTGATGTACGGGCCACCGGCACCGGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCATGGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATACCAGCGCGCGCGCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCCGTGTACCG
CACGGGCCAGCACAGCAACAAGTTCATGCTGGTCTTGGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCCTGAAGCTGGCCAGTTTGACTACGGGAGGAA
GTGCTCGGAGGTGCTCGGCTGACGGAGGGCATGTCGGGCGGGGAGATCGCTCAGCTGGCCGTGCTCTGGCAGGC
CACGGCGTATGCCCTCGAGGACGGGGTCTGACCGAGGCCATGATGGACACCCGCGTGAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCTGGGCGTGGGGACGAGCCTTCCCCATCCTGAGTCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCACCCCTGCCTTGCCGGCCCCCTGCACATTIAG
GATATGCTCCTGGGTGGGGACTGGGCTGTGCCCAGGGCTCTGTCCCCAGGATGTCTTGTGGTGCGGGTGGGCC
GTTCTGCCCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGCAGGCCTCCTTCTGCCCCCTCGAGAC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCACAGGGGGAGGGTGAGGCTTTCACCCAGCCCTGCCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCCGGGGCAGCAGGAGCCAGGCAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCTTGCTTCCCCCTGT
GGCCGCGCATGCCCCGATCTTTCACACACTGGTGACCCTGAGAGAGGAGGAGGAGGGAACCTGGCGGGGGTGTCT
GAGGCCGCACTGTGAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCCACAG
GTGCCTCATT

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FIGURE 1760

MSWLFGINKGPKGEGAGPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAAKAARELEHSRYAKDAL
NLAQMQEQTLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQARAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEESVQKQEQAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLES
IRTAGTLFGEFRAFVIDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAF LRKRATEKISED LRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPQGEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQKMCWLKAEGPGRGDEPSPS

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FIGURE 1761

GGCACAGGGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGCGGGCGGGCGGGCCTGGCCCCGGGA
TGCTATGTTCCGCAGCCTGGTGGCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGCGACAGCG
GCCTGGAGGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGCCCGTGGCCATCGGCAGCTGCGGCC
ACACGTTCTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCTGCCCT
TCGACCCCAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCCTACAAAGCGCCCTGTGAGGCT
GCAACAAAAAGGTGACCCTGGCAAGATGAGAGTGCACATTTCTGTCCTGAAGGTCCAGGAGCAGATGGCCA
ACTGCCCCAAGTTCGTCCCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCG
CCTGCCCCGTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGAAAGCCACCGCAGCG
ACCCCAACCGGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCAGCTACAAGAGCGCCAACCTTC
TGCAGCACCTGCTTCACCGACACAAGTTCTCTCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCT
TCCAGGCTGCTCTGGCCCTGTCTCTCTCTGAGAAGTGAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAAG
GATGTCCCCGCTCTGTGTGCACTGGCACCTGCTCGGGAGCGCACCTCACCGGACTGAGCTCACAGGAGGAGC
CTGCACCCGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAG
CAGGGCCGCTGGTCCCACCGCGCTCGCTGGGTTCTTCGGTGTCTTGGCCGAGCAGGCGGCCTACTTGGGCAGG
GCTGGACGCTGGGACCTGGAGCTGCCGCCGTCTCTTCAAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGAC
GCGCGAGTCGCGCTCCGCAGTCGAGCCGGGAGGAACCCAGGCTGCTGCCCTGCCAGCCCGACCCCTGCCCGGCC
CCGCTTCCACCTTGGCATTGTTGTAAGTGGCTTTTGTGATACTTAGGAACCTGGCATCTTTTCTATATTATCCAG
TGTGATAATCTTTTACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACT
AGGAATAATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGG
ATTGGGGCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCT
GCCCTGGCCACCCACTGTGTGTCTGGGTCTTGAGGTTTGACGTTTCTCTTTGATGACCAGGAAGAAATCCCAG
CACCCAGCCACAGGCTGTGGCTGCTCCCAGCAGAGGTGGGGCCGGCAGAGAAGGGGCCTCTCCACCCAGAGTC
CTGGCCTTGGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCACTGGTGGCA
GAGCTTGGGGGCCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATTCTTTTCTGTCTTGGCATT
AATTATTGCTGTCTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1762

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLOVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVETSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 1763A

CGAGCCTAGGGAGGCGAGGTTCCCGCACCGGATAGGAACATTCTGTTGTTTTCTCTGCCATCTAGTGGCAAAAG
AAAGTAATTTTCTGGTTTTTTGAATGGATAGCCATACCTTAAAAAGCATCCAGATTGCGCAGTAGTGCTAGCGG
CTTCGCGGTTTCAGTCTCTTAAGTACAGCCGCGGACTGGTGCTGAGCTGCTAGGAAGCCCCGTGCGGCGAGCTTG
TTGGAGCTTGAACCCACTGTCACCCCTCCGACTCACCAGCAAAAAAAAAAATGTTGAAGCAGATCGCCAGGAA
AGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAAGCTCTTGAAACAGTATTTGGCAAATATGGACGAA
TAGTGGAAAGTACTCTTGATAAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCC
CAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAG
CCACCAAACCATCATTGAAAGAGGTAGACATGGACCGCCCCACCTCCAAGAAGTAGAGGTCTCCAAGAGGTT
TTGGAGCTGGAAGAGGAGGAAGTGGAGGAACAGGGGACCTCCTTCACGAGGAGGACACATGGATGATGGTGGAT
ATTCATGAATTTTAAATGAGTTCCTCCAGGGGACCACTCCAGTAAAAAGAGGACCACCAAGAAGTGGGG
GTCCTTCTCCTAAGAGATCTGCACCTTCAGGACTAGTTCGACGAGCAGTGAATGGGAGGAAGAGCTCCTCTAT
CACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTCCCTCTCGTAGAGATTTTATTTGTCCC
CAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCAAGTTCTCGTGATACAAGAGATT
ATGCACCACCACCAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTCAGTGATGACTATCCATCAAGAG
GCTATGGCGATAGAGATGGATATGGTCGTGATCGTGACTATTCAGATCATCCAAGTGGAGGTCTCTACAGAGATT
CATATGAGAGTTATGGTAACTCACGTAGTGCTCCACTTACACGAGGGCCCCGCCATCTTATGGTGGAAAGCAGTC
GCTATGATGATTATAGCAGCTCACGTGATGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCGCCGAAGTGATC
TCTACTCAAGTTGTGACAGGGTTGGCAGACAAGAAAGAGGGCTTCCCCCTTCTGTAGAAAGGGGTACCCTTCTT
CACGTGATTCCTACAGCAGTTCAGCCGCGGAGCACCAGAGGTGCTGGCCCTGGAGGAAGCCGATCTGATAGAG
GGGGAGGCAGAAGCAGATAGTAAACAAACAAACTTTGGACCAAAATCCAGTTCAAAGAAACAAAAAAGA
GTGGAAACTATTCTATCATACTACCCAAAGGACTACTAAAGGAAAAATTTGTGTACCTTTTTTAAATTCCTGT
TAAGTCCCTTCCGTAATTTTTATGTTCTTGTGAGGAAAAAGTAAACATGTTTAAATTTTATTGACTTTATGAC
ATTGCTTTTTCAACAAGCAAAATGTTAAATGTGTTAAGCCTTGTAGTACTAGTGTGTAACCTTTCCAAGTAAAGGTG
TCCCTAAAGCACTTCCCTATCTGGTTTTTCCAGTAAATGAGGCAAGCAATTCTAAGATCTTCCACAAAACATC
TAGCCATCTAAAATGGAGAGATGAATCATTCTGCCTATACAAACAGCTAGCTATTAGAGGGTGGTTGGAGTATG
CTACTCATAAGATTTTCCAGGTGTTTTCTAAGTAAATCTCACTGTTCTCAGTATGCAAAACCTGAAATCAGATGC
CTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAAGCAATGGATAATGCTGGCCATTTTGCCTTTCT
GACATTTCTTGGGAATCTGCAAGAACCTCCCTTTCCCTCCCAATAAGACCATTAAAGTGTGTCTAAACA
ACTACGGAATACTAAATAAAAGTTTGGCCAAAACCAACCATGAAGCTGCAAGGTGCTTGCTCTTACTCTTTCA
AATTTTTGCAACTCTAATGTCTCACTTTTTAAAGGAACAGCTTGATTGCAAGGAGAAAAATAGATAAGCAATGAAT
TTATCTCCAACCTTCTAAAGGCTTATGACTTCTAAAAAGTGAATCTATCAGCATTCCACATCAGATTTAAAGCAT
CAAATGCCTGTGAAACAGCAAGATGGTTGAAGATTGTGCTCATTATGTTTGTGGAGTGCTGATTGATTACAGT
AGATAACGCTGGCAGTAAGAGAAATCAAATGCTAAGAGTTGTTGAAGCAGAAGGCGGCTGATTGTTGGTAAGTCA
GTGCAGTTGCATAAGCAGTGCTGTCAGAAATGGTTTGGTGCAGGCAATAGATTTTGCCTTCAAGGGTTCTGTGG
ATCTCAGGAAGGCATCAGTGTGATTAACACTCATACTAGGGAGTGAGTGGTAGTTACTTAAGTAATTGACCAA
ATGGAAAAGGGGAAGTAATTAAGGAAATGGTAAGTGGAGGTAGTCAGGAGGTTCTCGTGGTCTTTACACAGAT
TTTACAGCTTTGGGTTTTCAATTTGTTTAGCTAAAGTCATGGGGACAACTCTCAATTTAGAACTTAAGATGAATT
ATAAAAATGATGGATATAAGTGGTAGCTCTATCTGGTGAAGTGCTTGTGTCAGTAAGTGAACATTTTTTGTGGT
GGCTTATCCACAAACAGTTTTAGTTGTAGATAAACTTATGAGTGACATCTGGAAAGTAACAACCATGCTAAGAT
GGCAAAACACACTGGAAACAATTTGGGCCACTTGGCTTTCTTTTGTGCTATTGTTTTATAAGCCTGCTTTACCTCCC
CGTCTTGGAAACAAGTTTTAGTTTTATGCTTTGGAGACTAGAGCCAATAGTGTAAATGTTCTCAAAGGAAACAGAC
TTGAGTTGTTGGATTAGAGGAACCTCAACTCTAATTTTTTTTGTGTAATTATGGCACTGTCATGTTTTAA
CATTTGCAACTAGGGATAGTAAGTACAACATTTTTAACTCTCATTGGCAGACTACTACTAATCACAGACCACAA
GGGTAATGACCAAATTTATGTGGTTGTACACTTCCATAGTTGTCTTAGCCGAATCCTTCCATATTCTTATGATT
ACTTGGGTAAAGCTTCTGTGAGGACCTTTTGGCTCTTAAGATATCTAAATATTTAAATATTTAGATATCTTA
AATATAGGATATAGAGTTTGTACCAATATGAATGAATATTGTTCAAAGCAAGGAGTATGTTAAATGACCAGAC
ACCTGTTTGATAAATAGTTTACTGAACTAGCAGACGTGTGAAAAAGAATCAGATCTTGATTCTCTGGGTTTAT
ACTGGTTGTAAACAGAATGATATTAGAAAATGTTTCCTTGTTTAAGTGGTAGTTGAACATAGAAGTTGGGTAT

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FIGURE 1763B

TATAGATCACTTTTCACTTTTGGGAATGTTTTGTATTGAACTTAATACAACTTTAACATGGCAAAAAAAAAAAA
AAA

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FIGURE 1764

MVEADRPGLFIGGLNTEETNEKALETVFGKYGRIVEVLLIKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFERGRHGPPPPPSRGPPRGFGAGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPSGGPSPKRSAPSGLVRSSSGMGGRAPLSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYGDRDGYGRDRDYSDFPSGGSYRDSYESYGNRSAPLTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDYSSSRSDLYSSCDRVGRQERGLPPSVERGYPSSRDSYSSSRGAPRGAG
PGGSRSDRGGGRSRY

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FIGURE 1765

TCCCAAAGTGCAGGGATTACAGGTGTGAGTGAGCCACGCGGCCGCCCTCTATCATTCTGACTCAGCAGCTCC
ACCAAAATTGACATCCTAGCAAACACTGTGAAGGAATTAACCTAAGTGCTTCCAGAGCATCTCATGTAACCTCTA
TGGAGTAAGTCACTTTTTCTGTAAACATGTGGCTTTTGACCTTGATGAAGACTTTGACTTCTCATCCCTGTCTACA
TGGAGGAAGATGATTCAGTGGTGGGGAAAAATGAACCTCGGTAACATTTCCTCAAGAGGGAAACAAGT
TCAGTGTATCATCGTGGCATTCTGTAGTTTTTTTTTTTTTAAATCACTTTTTTAGATACAACCTTTATTTTTTTA
TACCTACATAGCACATGACTGGGGGGATAAAGCATGTATAAGTTGGGAGAGGGTAAAGAATGTGTGACTATGTAT
ACAGAAAATAGACTAAAATGTGCAGCAAAATGATATATACTGTAATCTGGTTTTTGAAGTATCTACTATTCIGGA
ATATTGTTAAACAACCTTTTTGCTTTTGAATAAAGGTGCCTTGATTGAGTTGCGTGACTTAGAACATTCATCC
TATTTTATTGTGATTTTAAATGTCTTCTGACCCCAAAGTGTGTTTTTGGTTGCAGTCTGGCGGCTGCAGGCATAG
CGTCGGTTTTTGTCCAATAACAGAGACCAAAGAGTTAATCAGATATGGTTCAGCTGCTACAATTGTATGATTCAA
AGGCAATTTAATCACCCCAAATTTCCATGGCCCCACAGTCAAGACCTGCCATTTCGTTTTCTTTCAGGTTGGA
GTAAATTTGCACCTTGAATCATGTGGGTCATTGGGGACCTTGTTCTTTTCTATTTTGCTTTATTAATAAAGGAA
CTGTAGAAACCTC

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FIGURE 1766

MIQRQFNHPKEFWPPQSRPAIRFLLQVGVNLFHESCFSFGDLVLFYFALLIKELVE

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FIGURE 1767

GGCACGAGGGGCACCTTGGCGAGGTGGCGCTGCCGGAGGCTGAGGGCTATCTACACCATCATGCGCTGGTTCGG
AGACACAAGGTGCGGGCTCACCTGGCTGAGCTGCAGCGGCGATTCCAGGCTGCAAGGCAGCCGCACTCTACGGG
CGTGACCTTGTGTGGCCGCTGCCCCCTGCTGTGCTGCAGCCCTTCCAGGACACCTGCCACGCACTCTTCTGCAGG
TGGCGGGCCCGGCAGCTGGTGAAGAACATCCCCCTTCAGACATGCCCCAGATCAAGGCCAAGGTGGCCGCCATG
GGGGCCCTGCAAGGGCTTCGTCAGGACTGGGGCTGCCGACGGGCTGGGGCCGAGACTACCTGTCTCTGCCACT
GACAATCCCACAGCATCAAGCCTGTTTGCTCAGCGACTAAAGACACTTCGGGACAAAGATGGCTTCGGGGCTGTG
CTCTTTTCAAGCCATGTCCGCAAGGTGAACCGCTTCCACAAGATCCGGAACCGGGCCCTCCTGTCTACAGACCAG
CACCTCTACAAGCTGGACCCTGACCGGCAGTACCGGGTGATGCGGGCCGTGCCCTTGAGGCGGTGACGGGGCTG
AGCGTGACCAGCGGAGGAGACCAGCTGGTGGTGTCTGCACGCCCCGCCAGGACGACCTCGTGGTGTGCCTGCAC
CGCTCCCGGCCGCCATTGGACAACCGCGTTGGGGAGCTGGTGGGCGTGCTGGCCGCACACTGCCAGGGGGAGGGC
CGCACCTTGGAGGTTTCGCGTCTCCGACTGCATCCCACTAAGCCATCGCGGGGTCCGGCGCCTCATCTCCGTGGAG
CCCAGGCCGGAGCAGCCAGAGCCCGATTTCGCTGCGCTCGCGGCTCCTTCACCCTGCTCTGGCCCAGCCGCTGA
GCGCCCGCACCCGCGCACCCCGAGGCGGCCAATTGTCCGCCCCGCCAGCGCTGCAAATAAACCTTCTGAGTCAG
CCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1768

GAGCTAGTGACAGGAGGGGCCGGGCTGGTACTTCAGGCGCCCAGGCCGGCGGGGCGCGCTCCGGCGGCTCCTGTC
AGCGGCGGGTGCGGCGGATCCCAGGGCAGCCTTCGGGCGGCGGCGCTGCCTGGTGCGTGC GCGGCGTGGTCTCTCCG
GCGGCTGTCCGGGGCGGTAGGAGTTGGCTGCGGGATGTGCTCAGCCGGGGAGCTGCTGCGGGGCGGCGACGGCGG
GGAACGCGACGAGGACGGGGACGCGCTGGCGGAGCGGGAGCGGCAGGGACCGAGTGGGATCCCGGGGCGAGCCA
GCGGCGGCGGACAGCGGCAGAAGGAGAGCGAGCAGGATGTTGAAGACTCACAGAACCACACTGGTGAGCCGGT
TGGAGATGACTACAAGAAAATGGGAACACTTTTTGGTGAAGTGAACAAAAACCTTATCAACATGGGCTTCACAAG
GATGTATTTTGGAGAACGAATAGTGAACCAGTAATAGTCATTTTCTTTTGGGTTATGCTGTGGTTCCTTGGCCT
GCAAGCCCTTGGACTAGTTGCTGTTCTTTGCCTTGTTATTATTTATGTGCAACAGTAAACATGGCCGAATTGAA
TTGTTTGACATTTGGTAGCCATATATGTAATTGAAGAAGTTATATATTTCACTTTTTGACAACCGAAAAAGTTTG
CCTTGTTTCAAATCATGTGCTGGCTGTTTTGTAAGTAAATTTATACATGGATGTCACCTTAAACTAAACTCTTGA
TCATAACAGGTTGAATATATATTTTGAATATACATTAGCTTATTCAAAACTCTTGTTTCACTACTGTGATCTCT
GTCTCCTTTTATACACCTCTATCCCCATGCCAAATCTTAAGTAACACCACCAGAAAGTGAACAGGAAAAATAACAG
GACATGGAATTCAAATCAAGCAATATAGTTCCTTATAAAGAGTTCCAATAAAACATTTTCAAGAAAAAGTATGAA
ACAAGCTAAAAGTAAGTTTCACTTAGAAAACCTTCTCCCACTCACACTCCCCACCAAATAATCTCATATTATTTG
GGAAATATTTGGATTTCATTGTCCTACCCAGCCTAAACTAAGGTAAATGATAATTAGCATACACTACCTTAAT
ATTGTGATGAAAAATCAGTAAAGATAGAACGTTTTCTAAAGGTCAAAAAATAATATATTTATTACTGGGAAAG
CTCCAGGTTAAATATAACTTTTTTAAATGTAACATTTGGACCTAGACCTACTTTAATATATCATTTGAAGTTT
CAGACAATTTTGGTGCTAATTACTTTTTGTGAGTTTTTAAAGTCTCATAGCCTAGTTGACTGCACCCTATGGTAA
TGCCATATTTTCTGTATCTAACAAGTTGCATATTTTTCTAGAGAGACATTTTCAGTGTATTTTTTTTAGAA
ATTTATAATTTTATAGTTCTTTCATAACACTTATTCAGAGTTTTGAAACAATGTATTTCTATCTTGACATGGAT
TTTTTCACAAAAAATTTGTATTTTACTGTTGTTTTCAAGAAAAAATCAGATCATTTTTCTTTGATATCTATATC
AGAAAGGTACAATATTAACAGTATAAAACCAATGCTTAAATTTGGAACTTAGCCAATTTGATAATCTTTTTCT
AAGGCTAAAGTCACATCAGTAATTGGCTAGCCATGTTATTAAGGTGTCTTAATTCAGCATTTTCAGGTTTTATAT
TGAAATACGCATTTCTTTAAATATCTTTGAAATGGAGAATGGCTTTAGTGATATTTTGGGTTTTGTTAGAGAA
CCTAAAATCTTTACACTTTTCATCTCAAAGATTATAAAGGAAAGGGGGTAGTTAAGATTTAGAATTCAAGTTAA
TTTCAGAAATTGGGGCAGTCAGGCATTTGTATCTTTGGTAGGGCAACAAGTAAACATGTAGAGTGCTTGCTATC
CCACTTCATAAAGCTTTTACCCAATCTTATTTCTAAACCTCTGTGCATTCTTAGTGCTTCTCATTCTGAAACAG
AAAATAAGGAAAAACATTTAACTTAGTTTTCTAAATCAGATAATCCTAAACAAAAATGTTAGTCAGGGTCACTA
AAAAGTATTGCACATTTATATAAATACAGTCCTTTTAAATTTGACTTTTAAAAACAAAAGACTTTGTACGATA
TTGTGTTTTTATTGCTTTTGCAATATTTTATAGTAGCCTTTATGAACCTCAGTATAAGTGCAAGTTGTTTGA
GGTGTTTTTTATTAGTGACAATAGAATTGTGAGGTTTTCAATAGATGTGATGAGATTTGTATATCTACATAAAA
TATCAGTACATTTTTTTCTAATGCTACTGGAAATTTTACTTTTCCCTTTGCAACACATAAATGATATGATGTACAA
AATAACAGCTCTGGTTCCACCAGTACCTAATGTTGAAAACATTTTTAAAGTAATTTTTAATACTAACTATTTAGT
ATACTGTCAGTACTGTACATCTGCACACTGGTGTTAATAGGTATATATTAATTTATATAAAGAAATAAAAAAA
GAAAAA

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FIGURE 1769

MCSAGELLRGGDGGGERDEDGDALAEREAGTEWDPGASQRRRGQRQKESEQDVEDSQNHTGEPVGDDYKKMGTLF
GELNKNLINMGFTRMYFGERIVEPVIVIFFWMLWFLGLQALGLVAVLCLViiYVQO

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FIGURE 1770

GGAACGAGGCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACCCGGGACAGACTCGGCGCCG.
CTGGCTGGCCTGGCCTGGTTCGTTCGGCCTCTGCACCCCGCGCGGGGTTTCAGCGCGATCTCCTGCACCGTCGAG
GGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTTCTCTGGGCAGC
CTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAGCCCCCTGCCGCTGGGCTTC
TCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCCC
CTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGA
ATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCCAGTGCCCAAGCCCCGAGGT
CTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGGCGGCCTCCTGGAGCGGACA
GCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGAGGCCTCCAGCCTCTATGGC
ATCTCAGCCATGGATGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAGCTGCAGCCCCCTGGCCTTC
TCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAACTACGGCTTCGTGGTGGAG
AAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCCCTCCGCGGAAAGAGCCCCCTTACTCC
ACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCACTCACTGCATCCTGGGAACC
TTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGAGGAGGGGGCGGGTCGAGGC
TGGTGGTGATGGGCTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGACAGAAGCCAGTGCCTTTAAG
TCATTTGTGTCAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTCCTGGCAATAAACACTACCCGGTTCTC
GCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1771

MDPVPGTDSAPLAGLAWSSASAPPPRGFSAISCTVEGAPASFGKSFAQKSGYFLCLSSLGSLENPQENVVADIQI
VVDKSPLPLGFSPVCDPMDKASVSKKKRMCVKLLPLGATDTAVFDVRLSGKTKTVPGYL RIGDMGGFAIWCKKA
KAPRPVPKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRASTLRRND SIYEASSLYGISAMDGV PFTLHPR
FEGKSCSPLAFSAFGDLTIKSLADIEEEYNYGFVVEKTAARLPPSVS

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FIGURE 1772

TTCGGCAGAGCCCTTGCGCGCTCTTGAATACCTGCKTTCGTAGCGCTAGTTCTCTTCAAGATTTGCTTAGTGTG
ATTTCAATTCGGTTTCTTTCTCGCCATGTTTTCTGTGCGAATTACGGTTCGTTTTGGTTCTATGTACTCTCTA
AAATGTTATCGTTTTTCATTTGTCTACTAATTTTCGTGCATTTGTTACTACTGAGTTTCTTAATATCTGACTGGC
CTCCGCCCACGGGCTCTGCAGAXCATAAAATACTCAGGCTGATGGTAGTGCAGAGACTCTCCCTCCTTGATCAGC
GCAAACGTTGGTCTGAGGCTTGAGGGATGGAGCAACATTTCTTGGCTGTGTGAAGCGGGCTTGGGATTCCGCAG
AGGTGGCGCCAGAGCCCCAGCCTCCACCTATTGTGAGTTCAGAAGATCGTGGGCCGTGGCCTCTTCCTTTGTATC
CAGTACTAGGAGAGTACTCACTGGACAGCTGTGATTTGGGACTGCTTTCCAGCCCTTGCTGGCGGCTGCCCGGAG
TCTACTGGCAAAACGGACTCTCTCCTGGAGTCCAGAGCACCTTGGAACCAAGTACAGCGAAGCCCACTGAGTTCA
GTTGGCCGGGGACACAGAAGCAGCAAGARGCACCCGTAGAAKARGTGGGGCAGGCAGARGAACCCGACAGACTCA
GGCTCCRGACGTTCCCTGGAGCAGTCTCTCCATCCYTGGGACAGACAGCAGGACACCGAGGTCTGTGACAGCG
GGTGCCTTTGGAAACGCCGCCATCCTCCTGCCCTCCAGCCGTGGCGCCACCTCCCGGGTTTCTCAGACTGCCTGG
AGTGGATTCTTCGCGTTGGTTTTGCCGCGTTCTCTGTACTCTGGGCGTGCTGTTACGGATCTGTGGAGCTAAGC
AGCCTTAGATAGCAGCAGAAGGCTTTTTGGATTCTCCTCCTTGAAAAGATTCTCAGTTACCAAACGTCTCCACCT
AGAAAATAAAAATACATTAAGATGTTGAXAAAAAAXAAAAA

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FIGURE 1773

MLSFFICLLIFVHLLLLSFLISDWPPPTGSAXHKILRLMVVQRLSLLDQKRWSEA

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FIGURE 1774

GAATCTCTCGCGGGCAGCAGGGCGCGCGCTGCACGCACAGTACTAGGTCAGGTGGTGCTCCCGGGTGAGGAGCTG
CTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGGTGCAGTGGAGCGACCGTTGAGCCTGAATGCTAGAGCG
TGCTCGCGGGTGCGCGTTTGTATGCGGTCCGGGCCTTCGACGCTGTGGGGACCGCCTGCTGGTCACCAAGTGCGG
CCGCCTCCGTCACAAGGAGCCCCGGCAGTGGAGGCGGCGGCGGTGTTTACTGGGTGGACTCTCAGCAGAAGCGGTA
TGTTCCAGTAAAAGGAGACCATGTGATTGGCATAGTGACAGCTAAATCTGGAGATATATTCAAAGTTGATGTTGG
AGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCAATTTGAAGGTGCAACTAAAAGAAACAGACCAAATGTGCAGGT
TGGAGATCTCATCTATGGCCAGTTTGTGGTTGCTAATAAAGACATGGAACCAGAGATGGTCTGTATTGACAGCTG
TGGACGAGCCAATGGAATGGGTGTCATTGGACAGGATGGTCTGCTTTTTAAAGTGACTCTGGGCTTAATTAGAAA
GCTATTAGCTCCAGATTGTGAAATCATACAGGAAGTGGGAAAACCTCTATCCACTGGAGATAGTATTTGGAATGAA
TGGAAGAATATGGGTTAAGGCAAAAACCATCCAGCAGACTTTAATTTTGGCAAACATTTTAGAAGCTTGTGAACA
CATGACGTCAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAGAAAAGTTGATATAGGTGGACTTTTTTACAGGT
CAGTTGAGGCAAAAACTATGGGTTTTTTCAGGTGAACCTCCCCATTTAAATACTCAGAAGATAAGGTGTGAAT
GTATGTATTATTAGAGTCCGAAAGTATTTTATAAGTTACTGGTTTTTCACCCACGCTTTTGTGGGAGAGAAAATC
ATTGCAAAATCATTTTTTTTGTTCGGTACAATAAAGTTTACTAAAAACAACAA

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FIGURE 1775

MLERARGCAFVCGPGLRRCGDRLLVTKCGRRLRHKEPGSGGGGGVYWVDSQQKRYVPVKGDHVGIVTAKSGDIFK
VDVGGSEFASLSYLSFEGATKRNRPNVQVGDLIYGQFVANKDMEPEMVCIDSCGRANGMGVIGQDGLLFKVTLG
LIRKLLAPDCEIIQEVGKLYPLEIVFGMNGRIWVKAKTIQQTILANILEACEHMTSDQRKQIFSRLAES

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FIGURE 1776

GAATTCGGCAGCAGCAAATGTTGAACCAATTATGTTTTGGTGGTGGTGTCTTAGCTGTTGAATCCTGAATGGTT
TATAAAGTGAAGTAGCTGGCTTAATGCAGCCAGCGTTCTGGGCAGCAGAACATATTCATTCTTACTGTAAATTCT
ATTTGCTGCTTCCAAAGGTGATGATTTTCAAGCAGACATGTTCTATATGGTCTGTGTTTTAGGATCTGGTGCCCA
GCCTCTATCAGAGCTTGCTTACCTGGCAAAGCTGCCTACCTTCAAGTGGGAAAAATATAATCCACTGTTTAACAA
GGCTCACCTCTCCACCCTGTCCTAACGACCTTTTGTGAATGTGCTGTGATATTTTCTTGCTCAATAGCAAGGTG
GTAGCTCTGCTTTCATTTAGAAGTGGAGGCTGAGGCATTGTATCAATACTGTTGCAACTCAAGAGTTT
CCTTGTAATAATTAAAGGAAAGATCTTGTTATTGATTAAACCATTTCTTATGCCTTGCTATTGACATATTCATGCT
CTTTCTACGTCTAGTGGCTGAAAATGTTTGCAATTTGTTTCATTGACTAATGGTGTGATTTTTGKYWCWATATTAT
TAGACCTGTAATGTTTTAAATGTATTTTATTAAATTTGGACTGGATGTATGKCTCTAGCAATACGAGGTACTT
TCTAAACTATTAAGGGAGGGGTTGTAYCCTCATGTTGAGATAAGATGATGGTCGTTTAAATTTTGCAATTTTTTT
TGGCCTGCAGGGATATTTTGTGTTTATGTGTCCAAAAAAGGAATAAATTGGCATTCTTGCGCCAAAAGTTGTTTT
TCCTGTCAATTGTCTAATAAGTATGCAGTACACTGTAATGGCAACATACATGGTTGCTTTATAAAAACAGTTTCC
TCAGTATGAGAAATTTTACAAAGAACAGTGGAAAAACTTTGTTTAACTCTTGGGTCTCCCTATTTTTTAAAA
ATTGCTATTTGGTATACAATTATTATGTGTCAATTAAACTAAAATAAACTTTTAAAAAARAAAAAAAAAAAAA
AAAAAAAAAACTCGTA

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FIGURE 1777

MFYMCVLGSGAQPLSELAYLAKLPTLQVGKYNPLFNKAHPLHPVLTTFCECAVIFSCSIARW

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FIGURE 1778

GGGGAGATCCGGCTAGAGGGGAGGCTCTGACATCTCCTTCCTTCCTGGTTCTGTCAGCAGCTGCTGCCACTGCTC
AGCGCGGTGAGGAGGGAGCCGGTGACTCGGAGACGGTGACTCAGAGGCAGAGCGGCGCAAGGGCCAAGGAGTACT
GGCGTCCATGGACCCTGGGGACCCCGTCAGGAGCAGGTGACATCCTTCCCCTTCCACCTGCTCCCTGCTCTACA
TCCCCAGCAGGGAGTGGCCTCTCCCTTCTCCATGGACTTCCAAGAGAGGGACCCGCCCTTCCTGCCTGAGAGCGC
TCAGTCTCTCAAAGCCCAGCAGTGTCTCAGCAGGCTCTGAGCTGTGGGAGGTGGTGGAGGAGCCTCGGGTCAGGCT
GGGGACAGAGGGTGTCTATGCCTGAGAGGCAGGAAGGTACCTGCTCAAGAGGAGGAAGTGGCCTCTGAAGGGCTG
GCACAAGAGATACTTTGTGCTCGAGGACGGGATCCTTATTATGCAACAACCCGGCAAGACATACCAAGGGGAA
GCTCCATGGCTCCATCGATGTCCGGCTGTCCGTATGTCCATCAACAAAAGGCCAGCGCATTGACCTTGACAC
TGAAGACAACATCTACCACCTCAAGATCAAATCCCAGGACCTATTCCAGAGCTGGGTGGCGCAGCTGCGTGCCCA
CCGCCTAGCCACCGCCTGGACATGCCCCGTGGCTCACTGCCCCAGTACTGCTCACCAGGAGGTTTCTGGTGCCCA
GCTTCCAACAGCAGCTACTGCTCAGCCCTACCTGGGCTTGGACCGCGGAGAAAGTGTCTTCCTGGCTGAGGGA
CAGTGATGGGTGGACCGCTGCTCTCATGAGCTCTCTGAGTGTCTGAGGGAAGCTCCAGGAATACACAGGCTCCT
CCAGAGCCTGGAGTCCCTGCACCGAATCCCCTCAGCCCTGTTATCCCCACACACCAGGCTCAGTGACAACCGA
AAGACCCAAGAAGGGGAAACGGACAAGCCGCATGTGGTGCACCCAGAGCTTTGCCAAGGATGACACCATTGGACG
GGTTGGTCTCTCCATGGCTCTGTTCCTCAACCTGTCTCGCTACCTGGAGTCTCGGGACTCCTCGGGCACCCTGG
GCTGCCACCCACAGACTATGCCCACCTCAGCGCAGCTTCTGGGCCCTGGCCCAGAAGGTGCACAGCTCCCTCAG
CAGCGTCTTGCCCGCCCTCACCATGGAACGGGACCACTGAGGGACATGCACCAGGGCTCAGAGTTGTCAAGAA
GGGGGTCTCTGAGGCCCTCCACTGGCCAGAGGCGCTCCACTCACTGTCCACCTCCTCCGACACCACGGCGGACTC
TTTCAGCTCCCTCAACCTGAGGAGCAAGAAGCTCTGTATGAAGGGGCGCGAGCTACCCCCCAGCTATCGCA
GACCAGCATCCTGTCCCTTGCTGATTCCACACCGAGTTCTTCGATGCCTGCGAGGTTCTCTCTCCGCCAGCTC
TTCTGAGAATGAGGGCTCAGAGGAGGAGGAGTCTGTACCAGTGAAATCACCACCAGCCTGTCTGAGGAGATGCT
GGACCTCAGGGGAGCTGAGCGCTGTCTAGAAAGGGGGGTGTGTTCCAGGGAGACCCATGGGGCCACCCCGCGTCTG
CTGCCCTGCCGGCGGCCAGCGGCCCTGGGGCTGACGTGAGCCTGTGGAACATTCTGCGCAACAACATCGGCAAGA
CCTGTCCAAGGTGTCAATGCCTGTGTCAGCTCAACGAGCCGCTCAACACTCTGCAGCGGCTCTGCGAGGAGCTGGA
GTACAGCAGCCTCCTGGACCAGGCCAGCCGCATCGCCGACCCCTGCGAGCGCATGGTGTACATCGCAGCCTTTGC
TGCTCTCGGCCTACTCCTCCACATACCACCGAGCCGGCTGCAAGCCCTTCAACCTGTCTGGGGGAGACCTACGA
GTGTGAGCGGCTGACCAGGCTTCCGCTTCATCAGTGAGCAGGTCTCCACCACCCCCCTATCTCGGCCTGCCA
TGCAGAGTCTGAGAATTCGCTTCTGGCAAGATATGAAGTGAAGAACAAGTTCTGGGGCAAATCCCTGGAGAT
TGTGCTGTGGGAACAGTCAACGTGAGCCTGCCAGGTTTGGGGACCACTTTGAGTGAACAAGGTGACATCCTG
CATTACAATGTCTGAGTGGTCAGCGCTGGATCGAGCACTATGGGGAGGTGCTCATCCGAACACACAGGACAG
CTCCTGCCACTGCAAGATCACCTTCTGCAAGGCCAAGTACTGGAGTTCCAATGTCCACGAGGTGCAGGGCGCTGT
GCTCAGTCGGAGTGGCCGTGTCTCCACCGACTCTTTGGGAAGTGGCACGAGGGGCTGTACCGGGGACCCACGCC
AGGTGGCCAGTGCATCTGGAAACCACTCAATGCCCCCGACCATGAGCGAACTTCGGCTTACCCAGTTTGC
CTTGGAGCTGAATGAGCTGACAGCAGAGCTGAAACGGTCTGCTGCCCTTCCACCGACACGAGACTCCGGCCAGACCA
GAGGTACCTGGAGGAGGGGAACATACAGGCCGCTGAGGCCCAGAAGAGAAGGATCGAGCAGCTGCAGCGAGACAG
GCGCAAAGTCATGGAGGAAAACAACATCGTACACAGGCTCGCTTCTTCAGGCGGCAGACGGATAGCAGCGGGAA
AGAGTGGTGGGTGACCAACAATACCTACTGGAGGCTGCGGGCCGAGCCAGGCTATGGGAACATGATGGGGCCGT
GCTCTGGTAGCCCTGGCCCCGGGGCAGGAGGCTCTGGTTCTCACTCCTCCTGCCTCCACCCCTACCATGGAC
ACATGGGTGAGGCCGGGTCCCCGCCTCACTGCCCTTCTGCCCATCTCCAGCATCTTCTTCCCTTCCCTGGCCC
TGCAGGGCCTTCTCCAGCTCCCTTTGGTTAGTCCCTGGCCATCCCTCCTGTCTGGATCCCTTCTCCCTAACTGC
AAAATGCCTGCAGCTTCCAGCTCCTTCGTCCCTGATCCTCAAGCGGTTCCCTCCCGTTTTCAGCTCAGCGGATCCC
CCAGAGTGGAGGAGGCCTTCCATGAGGAGGGGAGCAGCCCAAGGCACCTGTCTCTGACCCACCGGCAGCGAGT
GCGCAGGTGTGAGTGAAGTTTATGTAGGAGAGTGTATGCGTGTGCGCTGTGCCCTGCTTGAGGCAAGCAGGG
CTCCCTCATGTAGCCCCGCTTCCCCCTGTGGGGGTCCACCACATCGCTGCTCTTCTCACAGTCTGCCTCTGA
TGAGGGCGAATTGCTATGACATTCCAAGCTCCAATAAAGACTGTCCCAG

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FIGURE 1779

MDFQERDPPFLPESAQSSKPSAQQASELWEVVEEPRVRLGTEGVMPERQEGHLLKRRKWPLKGWHKRYFVLEDG
ILHYATTRQDITKGKLGHSIDVRLSVMSINKKAQRIDLDTEDNIYHLKIKSQDLFQSWVAQLRAHRLAHLDMPR
GSLPSTAHKVPGAQLPTAATASALPGLGPREKVSSWLSDGLDRCSHELSECQKQLQELHRLQLSLESLEHRIP
SAPVIPTHQASVTTERPKKGKRTSRMWCTQSFACDDTIGRVGRLHGSVPNLSRYLESRDSSGTRGLPPTDYAHLQ
RSFWALAQKVHSSLSVLAALTMRDQLRDMHQGSEL SRMGVSEASTGQRLHSLSTSSDITADSFSSLNPEEQE
ALYMKGRELTPQLSQTSILSLADSHTEFFDACEVLLSASSSENEGSEEEESCTSEITTSLSSEMLDLRGAERCQK
GGCVPGRPMGPPRRRCLPAASGPGADVSLWNILRNNIGKDL SKVSMPVQLNEPLNTLQRLCEELEYSSLLDQASR
IADPCERMVYIAAFVSAVSSTYHRAGCKPFNPVLGETYECERPDRGFRFISEQVSHHPPISACHAESENFQWQ
DMKWKNKFWGKSLEIVPVGTNVNLSLPRFGDHFENKVTSCIHNVL SGQRWIEHYGEVLIRNTQDSSCHCKITFC
AKYWSSNVHEVQGA VLSRSGRVLHRLFGKWHEGLYRGPTPGGQCIWKPNMPPDHERNFQFTQFALELNELTAE
KRSIPSTDTRLRPDQRYLEEGNIQAAEAQKRRIEQLQDRRKVMEENNIVHQARFFRRQTDSSGKEWWVTNNTYW
RLRAEPGYGNMDGAVLW

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FIGURE 1780

AGCGGAAGGGGCCTTTTCGGAACGATTGGAACGAAAGGAAGTGAAGAAACGCGGAACCATGGCCGCTGTGGTTG
CTGTTTGCGGTGGTCTAGGGAGGAAGAAGTTGACACACTTGGTAACGGCTGCTGTCAGCCTTACACATCCCGGGA
CTCACACGGTGCTTTGGAGAAGAGGTTGTTTACAACAGGTATCCAGCAATGAGGACCTGCCCATTTCATGGAAA
ATCCTTATAAAGAACCTCTTAAGAAATGTATCTTGTGTGGAAAGCATGTAGATTATAAGAATGTACAGCTTTTGT
CCCAGTTTGTCTCCATTTACTGGATGCATTTATGGAAGGCACATTACAGGTCTTTGTGGGAAGAAACAGAAAG
AAATCACAAAAGCAATTAAGAGAGCTCAAATAATGGGGTTTATGCCAGTTACATACAAGGATCCTGCATATCTCA
AGGACCCTAAAGTTTGTAAATCAGATATCGGGAAATAAATTCTATCACGTTACCACTAATAAACTTATTTTACAG
TAAGTGGTTGTATGATGCCAATACTGACTCAAACCAACCTTTGGATAGAAAAGTGTGTTGAGGAGTGAGGTAAAGA
ATGACACTTCCCCTTCATACCAATGTCCATTAAAGCAGATTGCTTATTTAAATGTAACTCATCACATTTTAT
CTATGTTGAATAAAAGTGGTTCTGTGTGATTGTCATTTATCTGATCCCCAAATAGCTCATACAATAATCCATT
CAATAGAATGGAATTAAGACTGTTTCCAGATGATTTTCCAACTAGCAAATATAAGTATGCCTGGTTAAGATATCTT
CCCTTTGTAGAAATGTTACATTGGGATGGATAGTGGTGTGTCACAGAAGGACAAAATATTCCTAGACGAGTCTA
TCCTCAAACAGTAGTGTCTTTTACATGAAGAGATGATTTACACCTAATAGACATTGAATATGATAGACATACAT
GTATATATGTATCAGTTCTGAGTTCCACTGGCCTATCCC

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FIGURE 1781

MAAVVAVCGGLGRKKLTHLVIAAVSLTHPGTHVLWRRGCSQQVSSNEDLPISMENPYKEPLKKCILCGKHVDYK
NVQLLSQFVSPFTGCIYGRHITGLCGKKQKEITKAIKRAQIMGFMPVITYKDPAYLKDPKVCNIRYRE

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FIGURE 1782

TATGTTAAAGTCTGGGACATGTTAAAGGAGGACAATTGCTAGTATCTTTGAAAAATCATCACAAAACCGTGACA
TGTTTATGTCTAAGCAGCTCTGGACAGAGGTTACTTTCTGGCTCACTGGATAGGAAGGTGAAAGTATACAGCACA
ACTTCCTACAAAGTAGTCCACAGTTTGTATTATGCAGCTTCAATTTTGAGTCTTGCCCTTGACATGAAGATGAG
ACAATAGTTGTAGGAATGACCAATGGAATACTGAGTGTAAACATCGGAAATCTGAAGCAAAGAAGGAATCACTT
CCCAGAAGAAGAAGGCCTGCATATCGAACCTTTATTAAAGGAAAAAATTACATGAAGCAACGGGATGACATTTTG
ATTAACAGGCCAGCAAAGAAGCACCTAGAATTGTATGACAGGGATCTGAAACATTTTCGGATCTCTAAGGCACCTC
GATAGAGTTCTTGGTCCCCTTGTACAATAAAGACACCCGAGATTACGGTGTCCATCATAAAGGAGTTAAATCGA
AGAGGAGTCCTTGCAAATGCGCTTGCAAGGTGCGGATGAGAAGGAAATCAGTCATGTTCTTAATTTTTTGATAAGG
AATCTTTCTCAGCCAAGATTTGCTCCTGTTTTAATCAATGCTGCTGAAATAATTATTGATATATATCTGCCTGTA
ATTGGTCAGTCCCCTGTAGTTGATAAAAAGTTTTTACTACTTCAAGGACTGTAGAAAAAGAGATTGATTACCAA
AGAGAATTGTTAGAAACCTTGGGGATGATGGATATGCTTTTGCCACCATGAGAAGGAAGGAAGGCACCTTCTGTG
TTGGAACACACATCTGATGGATTTCCAGAGAATAAGAATAGAATCATAGTGCTGCTAAATAAGACATATAAG
GACTCTGAAGTTGGAATAGATTTGACTGTATTAAATGTTGGCGAGAGACTCTCTTGATACATTAAAAAACTGT
TTGCAGAAGCAGTTCTGTGGAAGAGACTGGAATAATTATGGCCGAAAACAAGTACCCGTTTTAAGTAAGACATG
GTTTTCCATGTAATATTTGAATTATAGCATCTTCCACCTAGAAGATCTCAATGTCTTAGTCACAGAGTAGGTTT
ATCTGGGATGGATATTAATTTTAATACAGGAGTGTTCTGTATCAACATTTGGGTTGGTATTAGATGGGAATTCA
AATATGAATCCTCTCTGGAGAGGGTCCAACTGGGAATCCTGCTAAAGGAGCAAAGCCTTGTATTACCTCTGGAAG
ACAACAAAAACAATTGGCAACAACAAAAAGCCTCTTTCTTGACTTTAATCAGTGCCTTTGGGATTTCTGGGCCCT
TGCTTAGCTTGCTTCTCTGCTCTCTTGATATCTACACTTGCTTAGATCACATGCCCTGCTTACGTGGTAATGGG
ACTGCATCGGTTCCAAGTGTGGCAAGTAAGTTTTCGGCTCTGAAGAACTGACACTAGCTAGATTTGTATTACAGAG
TGTGAGAGCAAGCTCTACAGATAGACCTTATTGGACTACTTTTTTTTTTTCTTCATGCAGCCTTTCTACCAAGT
TTTCACCTTGTTTCAGGTCAGAGGAATGATAGAATTTGTCATTTTTCTTACAACAGCCTTTACAGACTATTCTTCA
TATGTTTCAAGCTAATCTTGTAGCTAAGCTACCTAATCCTCTGAAAACCTGTTTTCTCTGATTTGTATTTAGATTC
CTCCCCCATTATTACAAATCATATTGTATTTCGGAACCCCAATGCAGAGCAGTTTGCTTTGAAAAATAGTTGTT
TTTAAAGTTTAAATGTAAATAATTATTTTTTAGAAGTTTTTTTTTTTTTAAAGACAGGGTCTCGCTTTATCG
CCCAGGCTGGAGTACAGTGATGCAATCTCAGTCCACTGCAACCTCTGCCCTCCCGGGTTTAAGCAGTTCTCCTGC
CTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCCCCACCACGCCTGGCTAATTTTTGTAGTTTTAGTAGAGAC
GGGGTTTACACCTTACCGGGCTGGTCTAAACTCCTGACCTCAAGTGATCTACCTGCCTCTGCCTCCCGAAGTGCT
TGGATTACAGGTGTGAGCCACTGTGTCCAGCCTGTAATTTATTTTTTATAAAGAGAGATTCTTATTTCTTG
GCTTTTTGATGTATCTGTTCTGATAGATAATCATTGGCTAGTAACTCCTAGTACACTGGTTTCACAGTTGCTAC
CTCTCCTGCTTTTCTCTAATTATTACGCCAACTCAAGTAGTTAAAAATCAGTAAGAAAAATGTCTTGAGCTAGAA
GAACCCATAGAGGAAGATTTTGAATGCGAATCTCCTCTCATAATTTAGTTCTGTAAATTCAGGGTTTTTTTTT
GTTTTTTGTTTTTTTTTAAGCCGAAAAAATGCTTAATATGTTCCAGTAATGGTATTAAGTAAAAAATTAATAAAC
GTATTAAGTTTAAACATATTAAATTAATTTAACATTTAGACTAACATTAACATTTAAATTAATATGTTAAGTGAAT
ATACTTAATATATTCTAGTACAGGTATGCTTGGAAATAGGGCGTTTCCTTTTCATGAATTGATTTCGTACAGCAC
AGTGGCTTATAAGGAACCAGCAGTGTTTTCCCTGAGTAATTATGAACCTTAGTCAAGATCAGAAGCTGGGTTTTG
GGGTTGAGAAGAGTTTCAATTTATTTAAATAAAGTTTCTATTTAAAAACCTTT

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FIGURE 1783

MLKGGQLLVSLKNHHKTVTCLCLSSSGQRLLSGSLDRKVKVYSTTSYKVVHSFDYAASILSLALAHEDETIVVGM
TNGILSVKHRKSEAKKESLPRRRRPAYRTFIKGKNYMKQRDDILINRPAKKHLELYDRDLKHFRISKALDRVLP
TCTIKTPEITVSI IKELNRRGVLANALAGRDEKEISHVLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPV
VDKKFLLQGLVEKEIDYQRELLETLGMMMDMLFATMRRKEGTSVLEHTSDGFPENKKIES

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FIGURE 1784

CGGGCCCGGGTCTTCCCGCCTCCGCGGCCGCGGCCGCTTTGTTTCCCTGCCTCTGCGCTTCGGGCGACTCG
AGAGGGTCTCCCGCCGGGGTTGCGAAGGGGACGCGCGGCAGAAAGGGCGGCCGACCCCGCCGGGACTCACAGGGA
CCCAGGAGTCCGCGCCCGGGAGGGCCGCGTGAGGAGAGCGAAGAGGGAGCCCGAGCTCTGCGGCCCCGGGTGGC
GGGCCGGGGGCGCCCGTGAGCAGAGACCTCCCCGTCGACGGGGGGCGATGTTCCCTCACCCGTGGGCTCTTCGG
GCAGCCAGGGCATCCCGCCGTGGGACCTGGACCCGCTCAGTGGGCACCCCTCAGGCTGCTCCATGAGACCCCTG
TGCCCTGCGCCCCGCTGGCAGTGCCGGCGTCCCCGCGAGGGTCGCCCTGCTCCCCACGCCCCGGAAGCCGTGT
CGGGGACCCAGGAATTCTCTCCGCTGTGCTGCGTGCCTTCGCTTCTGCGCCCTTGCCAAGCCCCGGGCGTCC
TCTCTGGGCCCCGGGGCTGGGGAGCTGGCGGCGGGTCCCCAGTGCTGCGGGGCCCTCAGGCCCCCTGCGCCCT
GGCGGTGGGCCCCGGATGGCCTGAAGCACCTCTGGGCACCGACCGGGCGGCCGCGTTCCTAACACCGCCGCC
GGCAGGATGCGGACGTGCGAGCGTCCCCCGCGCGGAGAGGAAGAGGGCGGAGGCGGTTTCCCGCACTTC
GGGTTTCGCTCTGTGACCTCCGGGCGGTGCCCTGCGCCCCGCACCCTCGGGAATCTACGACCAGCTTCGCC
TCGGCCCCGCTCGCCCCGGCCCCGGGTCTCGAGCCTCAGCGTGGCCAGCCGCGAGCCCGCTCAGGAACCCAGT
TCCCGCCCTCCGTGCGCACCTGCGGGCCTCTCCACCGAGCCGCGGGTCCCGGACGGCGCCGCGGCCGTTCTG
CCCGGCCAGCTGCCGAAGTCGATGGAAACCCCCCGCGGCCCGCCCGAGGCTCCAGCGGCCAGCCCCCTCGACG
GCCAGCCCGGCTCCGGCCGACCCGGAGATCTCCGCCAGGAACATTTGATCGTCTGATCCGCCGGTTCGAAACTT
TGGTGTACGCGAAGGGCTTCGCTTGGACACTCCGAGTTTGGCGCGGGGGCCAGAGCGGCCGCTGCGAAAGGG
CCGGCTCGGGGAGCCGCAAGAAACGCCGGGTGCCGGCGCCCCCTCCGCGCACCGCGCAGCCCCGCGCCCTGCA
CCGACGCTCCCCACCAGCAGCACCTTCAGCTCTCTCAACTGCTTCCCTGCCCCCGGCCCTGTTGGTGGGGGAA
GACGAGACCTAAAGCCGGCATCCTCGCTTCGCTTCCAGGGAGACTCTAAGCCCCCGCCCGCCACCCGCTGTGG
AGGTGGCAGATGGGGGGTCCCGCTGTCCCTGAGCCCCCTGGCTCAAATTTCTGGGGGATCAACATGGATGAAAGC
TGACCGTGGGACTTCTGCGAAAGGGGAAAAAGTTGGGACCATGGCCAAACCGCGGGCTTGAGGAGGGAGCCCCGTT
TCTCACATTTGTCCCTTCTTTACATTTTAGGAGCTGTGGGCAGAGGGACCTAAATAACAGTGATCTTCATTCA
AGCACCTAAGTTTTTCGGGTGACAGTCCCTCCCCCTCATCTTTGCGAGGGAACCCAGGGCTGGAGTCGGGAGAA
GGCTGATGACATAGATTCCAATCCCTGCCTCCTTCCATCTCGGACCGTTGGAGGCAGGGCCTGCACCCAGTGGG
AGCAAAGGAGGCCACCGCTCAAAGACAGCCCTCACCCAAAAAAGGGGAGAAAGAGAGACCTCGGTGATGGA
CAAACCGTTGTTACTGTGTCTGTGGGCGAGCCTGGGGTGGGGGCTGTGGTGGGGGTGGGGAGATGATTGGCAG
CTCCCTGGGGGCATCCCCACCCCACTGTCCAGGCCTTTAACCTTTTGCTCCCTCAGGCCTTCCCTAACGCTC
CAAGCACCGCTGGAGCCTTTAATGGGTGAGGGAAGTTGGGTAAAGGAAGATCACCCCTTCTGTCCCTTTCT
AGGCCCCCTCAAGTGCAGGTGACCCCTTAATTGGTGAGATCTTCAGCCTCAGCCGCCGACCTTTCCCTTTTGCCA
GTTTTGGAGTTCCCGTTTTTTCTTGTGCTTCCGAGTGTAAGGTCTGGCCGGTGAGAAAGATTTCCCCAAC
CTTGATTAATCAGCCCCCTCCCCAACTTACTTCCCTTAGGACGGGTAGGGCTGAGGGACCTCTCTCTGAAA
GTGCTTACTTTGCCTGGGGAAGGGGCTAGACACTGTCCAGGGAAAGTAATAGAAGGTGGAAGAAATCAATAAAA
TCAGACCAAACAAGTCGCCTTTCGAGGGCCTCCACCGATTTATGGATGAGAGGGGGTGGAGGTGGAAGGCAGGCC
CAAGTCCATTCTTTGGACACCCAACTCAGCCCCCTTAAAGAGTGGAAACAAAACAAGCTGCACCTTTCAGAGGT
GGTAAATGAAAGGACTCTTGGCCTAACTTCAAGAGTCCCTGGGGTTTGAAGGGGCAAAGTTGAGTCTGGATGG
AACCTGGGCTGAGGTACCTTAAGCTTCCCCCGCAACACCCAGCCTCAGGGATTGCGGGAGTTGTCAGAGATCT
GATGGATCCGAAAGGGGAGGGCCAGGGGATTAGGTTTGGGGTCAGAGGTTCTGTTTTCCAGGGGAGGGGTGAGA
TAGGCCTGGATCATGCCCTCTGCCATGCCCTCCAGCTAGGAGGATCTTGAGTCAGAGAGGATTGGAAGTCTTTC
TCTCCACCCAGGTGAGGTGAGGGGAGCTTAGGTCTTAGGGAGATGGCAAGTTGAGGTATGAAGGGAAGCTGGGG
CTTTTGGAGCTGCCGAACAAGTGGGGACCCAGTGGCCTTCCATCCCGCACTAGTGAATAGCGCCCCCTCTTCC
CCGAAAACGAGGTGCGAGAGGAACAATTCCACGCTGGGGAAGGACTTGCTCTCTTTCTGTGAAAATGCTTTG
TAAAAAGTTGTTATTGTTTGCATAGAGCAGATTCTTGAGAAAACTGTTTTGGACCATAAAAGTTTTGTTGTTT

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FIGURE 1785

METLCPAPRLAVPASPRGSPCSPTPRKPCRGTQEFSPCLCLRALAFCALAKPRASSLGPGPGELAARSPVLRGPQA
PLRPGGWAPDGLKHLWAPTGRPGVPNTAAGEDADVAACPRRGEEEEGGGGFPHFGVRSCAPPGRCPAPPHPREST
TSFASAPPRPAPGLEPQRGPAASPPQEPSSRPPSPPAGLSTEPAGPGTAPRPFLPGQPAEVDGNPPPAPEAPAA
SPSTASPAPAAPGDLRQEHFDRLIRRSKLWCYAKGFALDTPSLRRGEERPPAKGPARGAAKKRRLPAPPPRTAQP
RRPAPTLPPTTSTFSLNCFPCPPALVVGEDGDLKPASSRLQGDSKEPPAHPLWRWQMGGPAVPEPPGLKFWGIN
MDES

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FIGURE 1786

CGCGGTTTCGGTTCGGCTGCAGCGCTACTTTTTGGTCCGGGGTTCGGCAGGGAGGCCGCGGCTACCGCATCACAGCTGA
CGTGAGGACTACGTGGGGCCGCTGCCGGCTCCGGGTTGCTGGGCGGCGGCCGCTGCTGAGCGGCGGTTCGGGCT
CGCCGTCTCCACCTCCTCGCGTCCGTAATCAGTGACGAGGTCCGCTACGTAAATCCCTTTGCGGCGGACAAATGA
CCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCATGTGC
AGACTCAGACTGGCCAAAATTCAATCCCTGCTTTAGCTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAG
AATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTCACGAAGACCCTCTTATAGGAAAATACTGA
ATGAACTGTCCTCTGATGTGCCTGGTGTTCCTAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCTA
GTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACAGTATGTATGCTGCAATTC
GATATGATACAGTGCTAGCTTTAAGTCTTCTCTAGTTATATTGAAGCAACTCAGGTTTTGGCATTAAATTGTTCC
ATTTTAAATGCATCATTAACTAACTGTATCATAGAAATGAAAGTATATGTTAAAAAGTGAGATCTTTGTAT
TGACAGCTGTCATATAATTTTGAAAAGTAAAAATTTGACTGCCGAATATAGAAGAAAAATTTGGGGTAAAAAGG
AGAATTTTCTTATTACATGTTTATATTAATCTCTAGTAAACATTGTTTTTGTGCTTTTATGATGCATGCGA
ACATAAATGTCCTGTATTTCATTCTTGTGGCTTTTGTACCCACAATTACATACTATTCTTACTAATCTGAGAGT
TTTCTAAAGTATGTTTTCAATGTTTCACTACTCTCTACTCTGTTAATTTGTGCTACAGTTTTTCTAAAAGAGAA
TGGAAAAATGATTTAATTTTTTAACTGTAGCAATTGGATAGATAATTTTATTTGAAATTTTACACACTGAAAGC
TCTAAATAACAGATACATTCACAAAAA

A

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FIGURE 1787

MTMETVESQHDGSITASLTESKSAHVQTQTGQNSIPALAQVAAIAETDESAESEGVIDSHKRREILSRRPSYRKI
LNELSSDVPKIEERSEEEGTTPPSIATMAVPTSIYQTSTGQYSMYAAIRYDTVLALSLL

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FIGURE 1788

ACATGACGGGCACGCCAGGCGCGGTTGCCACCCGGGATGGCGAGGCCCCGAGCGCTCCCCGCCCTGCAGTCCGA
GCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGATCCAATTCA
AAGACGGGGCCTTCTGTCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGGAACAAGGTGGTGACTGTGG
ATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGAACGGTTCGGAAGCGTCACCCATGCTTATT
ACAGAGATGCTCAGGCCTTGCTTCTGCTGTATGACATCACCACAAATCTTCTTTTGACAACATCAGGGCCTGGC
TCACTGAGATTCATGAGTATGCCAGAGGGACGTGGTGATCATGCTGCTAGGCAACAAGGCGGATATGAGCAGCG
AAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCTTCCCTGGAGACCAGCGCCA
AGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCATCGCCAAGGAAGTGAATACCGGGCCGGGCATCAGGCGG
ATGAGCCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAGAAGAAGCGCTCCAGCTGCTGCTCCTTCATGTGAA
TCCCAGGGGGCAGAGAGGAGGCTCTGGAGGCACACAGGATGCAGCCTTCCCCCTCCCAGGCCTGGCTTATTCCAA
GAGGCTGGTCTTGAATTCCTGAGCTCAAGCAACCTGCCGGCCTCGGCCTCCCAAAGTACTGGGATTACACGCAGA
AGGCACCATGCCCAGGCTAGATGTGTCTTATCCCAATCCTTTGGCAGGCATGCAGCTCCACAGGCGATTTCTTCA
AGCAGCTGAAGTGTTTAGCCCTCCTGGGTAAAGAGCCAGATAAGGAGAAATCCCTTTCTAGGTTTGGAAATGTGT
TGTGAAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAGATTAAGCAAACCTCCCCTGACATGTA
TCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCCATGCCCTTTCCCTTTAACTTCTCAAACAGATACCAGG
GCCTAAACTGCTTTACCTCCCCTCCTACTGAGTCAGGTTAGGTGGTGGGAGGTCACCCATTTCCGAGTTAAACCA
ATGCAATATGAGTAAACAAAGTCATGTGGGTATGCTGGGGTAGAGAGAGGGGTAGCAAGTTCATGTGTCTCCTCC
TTGGTCACATATCTCCCAAAGCTCCGATCCCTGCCATGGGAAGTGGACAGGAAACATGAGGTCATGACCTGCAGG
CATCTTTACTGCAGCTCTGCCGGCTGGAGGGGGAGAGGGGGAGGAAGAAGTATGCGCTGCACATTTCTGAGGCT
ACTGCATTTGCTTTCAAGGCAGAAATCTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCCGATAAGGAAGTTC
TCCGTGGCCTCCCTCAGGCAGAGCAGGGAGGAGGCTGACATTGCCAGTCTCTTCTGGGGCCCCAAGGCAGGTTGCA
GGAGATCCAATCCCATAGACAGCTCTGGGCCTCTTGCAATTTGAGTTTTTCAGAATTAACTGCAGTATTTTGGA
AGCAA

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FIGURE 1789

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKVMLLGDTGVGKTCFLIQFKDGAFLSGTFIATVGIDFRNKVVTVD
GVRVKLQIWDIAGQERFRSVTHAYYRDAQALLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLLGNKADMSSE
RVIRSEDGETLAREYGVPFLETSAKTGMNVELAFLAIKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

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FIGURE 1790

CTATCTTAATTCATTTTATTCTACAAAATGCTACTCAACTGAAAGTGGAATGCTAACCCCCCTCCCCAAAAA
ATCGCAAGGGAAAGAAGTTTAAATATGTTCTTTCTTCCATAGCAGCAAGCTTTTCTACAAGCTTCTTTAGTG
CAAATACTGTAGGCTTGTATTACATATAGTAAAAACAACAAACAACAACAAAAACCACCAGAAAGG
CTTCCAAACAAAGCTACTCCTCAATTTTCAAACTATACAAAGATTTTGAGCTTGCGGTTCTGCCTGGAAGGTCT
ATTTAGGAGACTCTCCAATGGGACCATTTCACCATTACTTAAAAAAAAAAAAAAAAAGTGCCAGAAAGGTA
ATTAAATTCCCCATAGGGCCATATGAACCATATACAATTGTTTGCCTCCAGAGTCTTACAGCTGACTTTACTCC
ACGTCATTAAACATATCTCAAATACAGATGCACAAAGCTTATTTTCTACTATACACCAAAX

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FIGURE 1791

TTTTTCTGCTACCGTGACTAAGATGGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGTCCGGCCC
CAGGACAGTTTTACCGCATTCCGTCCACTCCCGATTCCCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCCTCTGGCGACTACGCTGATTTCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCCTAGAGCTATTCATTTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCGTTCTTACAACCGGTTTTCAAACCGCCACTGTACCAGAAAAGGTGTG
AAATAGAGGGACCATTTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGTGGCTTTGAATGAAATACAG
ATGCATTATCCGAACTGAAGTTGCCCTACTTTTAACTTTGAACCTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAAATG

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FIGURE 1792

MEAFSGSRGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGPLSTETNWDIAHMISGFE

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FIGURE 1793

CCCTACTGCGGGTCCCGCTGCTGGCAGCGCTGGAACTGGGTGGACGGCATGGGTTGGTCTCAGGATTGTTCG
CGCCTTGIGGAGATCGCTGTCAAGGGAAGTGAAAGAGCACGTGGGCACGGACCAATTCGGGAACAAATACTACTA
CATCCCGCAGTACAAGAAGTGGAGAGGACAACTATTCGAGAGAAAAGAATTGTAGAAGCAGCAAATAAAAAAGA
AGTAGACTATGAAGCAGGGGATATTCCAACAGAATGGGAAGCTTGGATTAGAAGAACAAGAAAGACTCCACCTAC
TATGGAGGAAATACTAAAGAATGAAAAACACAGAGAAGAAATCAAATAAAAAAGCCAAGATTTTTATGAAAAAGA
AAACTCCTTAGTAAAGAGACCAGTGAGGAATCCTGCCTCCACCAGTTCAAACCTCAAATTAAAGGCCATGCCTC
TGCTCCATACTTTGGAAAGGAAGAACCCCTCAGTGGCTCCCAGCAGCACTGGTAAACCTTTTCAGCCAGGATCCTG
GATGCCACGAGATGGCAAGAGCCACAATCAATGAATGCATTATGGTCAAATCTTTTCATGTATATGGATGTGACT
ATTTTAACAAATAAAAGAAGTGAAAAGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1794

GCATGAACCTTGGGGGTCAGCATGCTGAGGATCCTCTTCCTCCTGGATGTAGGAGGAGCTCAAGTGCTGGCAACAG
GCAAGACCCCTGGGGCTGAAATTGATTTCAAGTACGCCCTCATCGGGACTGCTGTGGGTGTCGCCATATCTGCTG
GCTTCCTGGCCCTGAAGATCTGCATGATCAGGAGGCACTTATTTGACGACGACTCTTCCGACCTGAAAAGCACGC
CTGGGGGCTCAGTGACACCATCCCGCTAAAGAAGAGAGCCCCAAGGCGAAACCACAATTTCTCCAAAAGAGATG
CACAGGTGATTGAGCTGTAGGTGAGCAGTGACGTGAAGAGGGGTTCTAGCCCCGTGGAAAACAGCCCATGGTTAA
CATCTCAGGATGTTCTGCATTCAAACACCCAAGGCTGGTAATGAACTTTCACATGGACTGAATATTGGAGGCAAA
TAATAGAAGGAATAGAATATACAGTGCCTCTGTCTGAAGGAAAATATCATGCCTCTTCTGGAAGAAACGGACTG
CACAGAGGAAGGATTGAGCAATTTAGCCTGCAGTGAAGAAGGTGGACACCAAAAGCTTCACCCTGTGTTGGAGC
TGTTTCATGCTTCCATGAGGCCATGGTGTCCATGTCCGTGGAACCTACCACAGAAAATGGCTCATGAAAAGGGGAA
TCCGACCCAACACACAGCTTCTACACACTGCCATCTTATCAACAGTTAGGCACTACTTTGTAGAACGATTAGCT
TCACCCTCTTAGCTGCCAGGAGATCCCTTCTTAAAGATGGACTATGTGAAGATTCTGGGAGTCTGAAACATGGGG
ACTCCGGGATGGTCTCTAGCCCTATCGATGATGAACACTGGCCTTCTGGAGGGGAAATGGCAGTCTGGGCTGGCG
TGGTAGGAAGGGCTTTGGTGTTCATGGAATGGGCCTGTGCTCTCAGACCTTCAAAGGATGGAACCAACGAAGGA
CCAAATGAGAAAGCAGATGCTGTGCCCTTGACAGGGCCATGAATGTCAGTTATTATTTTCTCCTTATACAATTA
TTTTGTGGTTATTATTACAATGTACATGGCTGTTGCATAGAAGACATGACTGGTGGAGGCTGAGGAAAGCCATGA
CATTCTACAATTGCCATCAGGCTAAGGCCCCGTGAGCATTCTCTCCCTTGTAATATTAACCTGTATTTCTGGG
ATCACATCACGGAATATTCTTTGCCTTTCCACTTTCCAGGAAATCTCTCGGACTGGGCTACCCCTCTGTGTGTG
ATGAAAGATGAGCTATATTTGAGAACAAAGTGTGTGTTGCATAATTTGCCTGGACTCCCAGGGCGTCTCTTAC
CCAACCTTGATAACGATGCTGTTTATTAGCAGCCTTTGTTAACTGATAACCAAGAGCGGTAATGTGATACTCATAA
GCAATTTTCTGTGTGTAGGATAAAATAAACCATCTTGTATGGGAAAA

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FIGURE 1795

MNLGVSMRLRILFLLDVGGAQVLATGKTPGAEIDFKYALIGTAVGVASAGFLALKICMIRRHLDLDDSSDLKSTP
GGLSDTIPLKKRAPRRNHNFESKRDAQVIEL

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FIGURE 1796

GTCAGTCTTAGACGACTGCGTCGTGCTATGACCGGACTTTTTCTTGAAAGGGGATGACAGCAATGGGAGGCAATGG
CTCCACATGTAAACCCGACACTGAAAGACAAGGCACTCTCTCCACAGCAGCCCCAACAACTAGCCCTGCACCCTG
TCTCTCTAACCACCACAACAAAAACATTTAATCCTTGCCTTTTGTGCTGGGGTTCTACTGACACTGCTGCTGAT
AGCCTTTATCTTCCTCATCATAAAGAGCTACAGAAAATATCGAAGGGAGAGGCTTCCCATTTCGCCAGGCCCCATT
GCTGAGATGGGTCCCTCTTCTTTCTGGCACCATGGCAGATCACTCCAAGCCCCAGGCCCCAGATCCTCACTCAGA
TCCTCCAGCCAAGCTTTTCATCCATCCCAGGGGAATCACTTACCTATGCCAGCACAACTTTCAAACCTCTCAGAAGA
AAAGAGCAATCACTTGGCTGAGAACCATTCTGCAGACTTTGACCCCATGTGCTATGCTCAAATTAAAGTAACAAA
CTAACTCAGCTTTTCCAATGAGGCTTGAATCCATTTCCTCTCATCTCAGCCCTATCTTCACACATCACTTTCACT
TTTTTACAAATTTTGGACCACCACCTGTGTGAACTGCAGTCGGAGTTGTTTAGATGTGATCTGGCAATGCTATC
CAGCATCTTTGGAGACCAATGGTCAGTCTTTTCCCTGCCAGAGGAAAGATTGATGGCCCTCCCACTTGAAGTGC
AGCCTGTGAGCCCTTGGGGGCATAGACTGCCTTCCTTGGACCCTTCCAAAGTGTGTGGTACGGAGCTCAGTGCA
CAGAGTATTCACCCAGCATCATGAATCAACTTGGGAGGAGTCAACCAATGAACAATCTACCAAAAATTTCAAAT
AAAGTCAAACCCCCAC

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FIGURE 1797

MGGNGSTCKPDTERQGTLSTAAPTTSAPCLSNHHNKKHLILAFCAVLLTLLLIAFIFLIISYRKYRRERLPI
SPGP LLRWVPLLSGTMADHSKPQAPDPHSDPPAKLSSIPGESLTYASTTFKLSEEKSNHLAENHSADFDP IVYAQ
IKVTN

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FIGURE 1798

GGAGGGTTTTGCTCTTTGTGTGGGTGTGTGAGTGGCTATGATCCTAGTTGTCCAGCTGCTGCGTGGAGAATAAGT
AAAGCAGGTCTGAATGACACCAGGTGCTGCTGCTTTCGGCTGACATTAGGTAGAGACGTTTCATCTTCACTGA
CGGGGAAGATGAGGCCCTGGCCAGGCACACGGGCAACGTGGTCATCACAAGTCTGCTCGGCCGCCACAGCCGCCA
GGCGCTGTCTGCAAGATGGCCGTGGAGTATGACCGCTTCATCGAGTCCGGCAGGAAGTGGTTCTGCCACGTGGA
CGATGACAACCTACGTCAACCTGCGGGCCCTGTGCGGCTGCTGGCCAGCTACCCGCACACGCGGGACGTCTACGT
CGGCAAGCCCAGCCTGGACAGGCCATCCAGGCCATGGAGCGGGTCAGCGAGAACAAGTGCCTGCTGCTCACTT
CTGGTTTGGCCAGGGCGGCGCTGGCTTCTGCATCAGCCGTGGGCTGGCTCTGAAGATGAGCCCGTGGGCCAGCGG
GGGTCACTTTCATGAATACGGCTGAGCGGATCCGGCTGCCTGATGACTGCACCATCGGCTACATCGTGGAGGCCCT
GCTGGGTGTGCCCTCATCCGCAGCGGCCTCTTCCACTCCCACCTGGAGAACCTGCAGCAGGTGCCACCTCGGA
GCTCCACGAGCAGGTGACGCTGAGCTACGGTATGTTTGAAGAACAGCGGAACGCCGTCCACGTGAAGGGGCCCTT
CTCGGTGGAGGCCACCCATCCAGGTTCCGCTCCATCCACTGCCACCTGTACCCGGACACACCCTGGTGTCCCCG
CACTGCCATCTTCTAGTGGCCATGGCTGAGACCCAATCCCTGGGCGCCCTGGTATCCAAAGGGGCCAGGGACCC
TGTTCGCTGCCCCGGCCCTCGGCATTCGAGGCTCCCCTAGGGCCGTGCTGTGCGTGTGCGTGTGCATGTGCGTG
TGTGTGTGTGTGTACTGCATGCCACCCGGGTAGCAGGCTGCTGGGCAGTTCTGCTCTGTGGAGGGGCGGGCACC
AGCGCCACTTATGTGCCTCTGCTCCGAGGGCCAGTGGGCTGCAGGGCCTGCTTGGAGGAAGGATTTGTGTGTCGG
AGGCCACTCCGAGGGCAATTCTGTTAGGATTTTTGGATCTTTCTACAGCTACGGGGCTCCGGGCTACTTTGCAGG
GATGCGATGCGTAGGTGCCTTTCTCTTCTGCTGACCACAAGCTCTGTGCTGGGGGTACCTGTGCCCTGAAGTCC
TGGCCCCCTGTGTATAGCCCCAAGTACGACTCACTGAGCCATGCTCATTGCAGGGGAGGCTGGGTCTGGGGGTGC
GTGACCCAATCCCTTCCCTCCTGGCTGGACGCTGTGGCTTAAGAGTAACAGCAGCCACCGCCAGTTCCAGTGG
CCCCACGAAGCCCCAGTGGCTGGCTGTCCAGCTGGGCAACAGTGGCACCCCTCCAGCTCTTCTGAGTGGGGA
GTCTTCCAGGCCTCCTCAGAGGTCTTCCCTTTGCCTCCCCAGGACAGGGTGAGTCAGAGCTCAGCATTTAATCTC
CTCTCCAAAGTAGAGAGCAAGTCGCCACAGTGGGCGTGTCTGTAATATTGTGACAGTATTTTTTTACTGTGCT
GTTTTTTTTGAAAGGGGATGGGTAAAAAGTAGGGTGTCTTGTTTTTTGGCTGGGAGGGTGGGGTGGGGGAGGG
TCTTATTTTATCTTATCTTTTCTGTGGATCAGAAAAACAGAAGCCAACTCGGGGTATCTTTGTTTTTAAAGC
TGAAGTGGGACTGTCTGGCACTCTGTGATTTATGCGTTCCAGCATCTGGAACCTCCCATCCCTGCCCTCCTCCT
GTGTAGCTGCCACCTCCCCGTGGGCCAGCATGGCTCACCTGTCCCGTGGGCTGTGTTTCTGTGTGTTTTCTC
TTTGCAAAGACATAGCTAGGAAAGCGAATGATAAGGGAAAAGTCTCAGGGAATTGAAGTGTGTGTGCTATGGTG
ACGTCCTTTTGCTGTGAATAAAGGTGCTCTTGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 1799

MTPGRCCLAADIQVETFIFTDGEDEALARHTGNVITNCSAAHSRQALSCKMAVEYDRFIESGRKWFCHVDDNY
VNLRALRLRLASYPHTRDVYVGKPSLDRPIQAMERVSENKVRPVHFWFATGGAGFCISRGLALKMSPWASGGHFM
NTAERIRLPDDCTIGYIVEALLGVPLIRSGLFHSHLENLQQVPTSELHEQVTL SYGMFENKRNAVHVKGPF SVEA
DPSRFRSIHCHLYPDTPWCPRTAIF

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FIGURE 1800

CTTCTCATTAGCATTAACTAGTTATGCCAGCTTGGGAGAGCCTTCTTTGGGCTTATCATTATTATAAGCCCAG
AAATAGGTGACTAATCAGAGATAAATGTATGGGTTGTCTGTATCTAGTTTTATGCCCTTTTTTTTGCCTAAGACG
TAGTCAAATTAATATTTTAACTAATACATCTTAGCAGAGTTTAGTTAAGCACAAAGTTAACAGTGGGTAGGATTG
AATCTTGAAAGTAATCATGTCTGTAATGTTTTTCATGCATGCAAAAAGCACAGACAAAACCACTCATGCCCTATT
AATAAACAAAATACAGATCAAAGTTTTCAAAAGTAATCACTCTATTTATTCTAAATGTCTGTGGCTTTAGGAAAA
TACCACCAGCTAGTACTTACCTATTTAAAGATGTAGAATTTATTATCCTCTAATATTCTTATCAGTTGTTTCCAC
AACTTTAGTTTACTATTGGACTTTCAAAAATTTAAAGAATTACAAGTAAAATTCATTAAACACTTGTGTGTGAAT
AGTAATACACAGTAATTAGTACAGCATGTTGCTTCTTCAACAAATTGAGTTTTTCAGGGAAATCAGCAAGTAAATG
AAATATAAATTTTTGGTAAAGTATCAAACATTATCTTGCCCATTTTTCTCTTAACTTTATTATCTAATCAA
ACATAGTTTTCCATAAGATGTAATAAAATATAGATAAGGTTGGAATATTTGAGGATCCATTTGTGGAAGTGAATT
TAATGAGACTTCATTGGTGATACACTCAATTTTTACTGGGTAATTAGCTAATAATGTTGGTCACTGCTCACAGT
TCAAGTAGCTTTAAGATGATGTGGCAAGGAAAACACAAAGCTTTTGGGTAACCAGCGTTCTTAAATGTATGGTTT
TTGACCAGGTGAACCCTTTAGAAGTGATTCTGTTTTAAAGTATGTACTTAAATACCTTTGGCTGTGATGAAT
GTAGATCCCAGCAGAATACCAAAATCCTATTTTTTTTGACTGAGTATTGTAGATGCTTAATGACTGAAATGAAT
TTGGAGGCACTGATGAAAGTGATTTTTTTAAAGTTCTCAGGTACTGTTCAATTATTTAATGTTAAGTTTAGTATC
AAGATACAGTTGTTTTTAAATGCCAAAATGCTGTTTATTATACAGAATATTTTATTACATTTGCAATATCTTTG
TATATAGTGATTTTTTTCTTGATAATAAATGGAAAAATTCTAAACAAA

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FIGURE 1801A

GTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGGCAAGAGCAGCGACCGCGGCACCTGTCCGCCCGGAG
CTGGGACGCGGGCGCCCGGGCGGCCGACGAAGCGAGGAGGGACCGCCGAGGTGCGCGTCTGTGCGGCTCAGCCT
GGCGGGGGACGCGGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATATTGCTTGG
AAAAACGTGTGGGTACGACCTTGGCTGCCCCCAAGTGTAACTCCAGCACTGTGAGGTTTCAGGGATTGCGAGAGG
GGACCAAGGGGACCATGAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGA
AGTGTACATACATTGTGAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTTCAGGCGGAGGCAT
CCTTACCAAGGAATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACA
TACCAAAGGGCACACGTTTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACA
GGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCTTCACCACCTTATTGACGGCTTTAATGAAGAGAAAAGCA
ACTGGATGCGCTATGTGAATCCAGCACACTCTCCCGGGAGCAAAACCTGGCTGCGTGTGAGAACGGGATGAACA
TCTACTTCTACACCATTAAGCCCATCCCTGCCAACCGAGAACTTCTTGTGTGATTGTGCGGGACTTTGCAGAAA
GGCTTCTACTACCCCTTATCCCGGAGAGCTGACAATGATGAATCTCACACAAAACAGAGCAGTCTAAAGCAACCGA
GCACTGAGAAAAATGAAGTCTGCCCCAAAGAATGTCCCAAAGAGAGAGTACAGCGTGAAGAAATCCTAAAATTGG
ACTCCACCCCTCCAAGGAAAGGACCTTACCCTTCTAACATTTACCCCTCACATCAGAAAAGGACCTCGATGAC
TTTAGAAGACGTGGGAGCCCCGAAATGCCCTTCTACCCTCGGGTCTGTTTACCCCATCCGGGCCCCCTCTGCCAGAA
GACTTTTTGAAGCTTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCCATTCATCTCTCC
ACCCTCCAAGCCCCCTCTGCAAGAAGCAGCCCCGACCAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGG
AATACGCTGTCCCTGTGGGCCCCGGCTCTCAAGAGCACCAGGACTCCTACGCTTACTTGAACGCGTCTACGGC
ACGGAAGGTTTGGGCTCTTACCTGGCTACGCACCCCTGCCACCTCCCGCCAGCTTTTATCCCTCGTACAAAC
GCTCACTACCCCAAGTTCTCTTGGCCCCCTACGGCATGAATTGTAATGGCTGAGCGCTGTGAGCAGCATGAAT
GGCATCAACAACCTTTGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGAGCCTGCCC
CACCCCATGCTCAACCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGAGGTTGCTCCAGCCGGAG
CATCCAGGGAGGTGCTTGTCCCGGCGCCCCACAGTGCCTTCTCCTTTACCGGGGCGCGCCGAGCATGAAGGAC
AAGGCCTGTAGCCCCACAAGCGGGTCTCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCCAA
GCTACCTCAGCAGCGATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACC
GGCTACAAGACCCCTTCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGGCCCAAG
ACTTTTCGGCCAGCTCTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTGAGACT
TGCAACAAGGGCTTTACTCAGCTCGCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAGCCACATGAA
TGCCAGGTCTGCCACAAGAGATTTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAA
CCATACCAATGCAAGGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAAACTGCACAAGCGTCTGCACACC
CGGGAGCGGCCCCACAAGTGTCCCAAGTGCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTACCTGAAA
GGGAACTGCGCTGCGGCCCCGGCGCTGGGCTGCCCTTGAAGATCTGACCCGAATCAATGAAGAAATCGAGAAG
TTTGACATCAGTGACAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAG
GAAATTCTGGCCGTGGTGCAGAAAAGAGAAAGAAGAACTGGCCTGAAAGTGTCTTTGCAAAGAAACATGGGGAAT
GGACTCCTCTCCTCAGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCAGCAACCCA
CTACCTCTGGTACCTGTAAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACCTT
ATTTTGTCTTCTTAAGTTATGACTTGGTGAGTCAGGGTGCCTGTAGGAAGTGGCTGTACATAATCCAGCTCTGC
AAAGCTCTCTCGACAGCAAATGGTTTCCCTCACCTCTGGAATTAAGAAGGAACTCCAAAGTTACTGAAATCTC
AGGGCATGAACAAGGCAAAGGCCAT
TATTTACACCTGTGTCTATATATTTGCCCCCTGTGTATTTTGAATATTTGTGTGGACATGTTTGCATAGCCTTCCC
ATTACTAAGACTATTACCTAGTCATAATTATTTTTTCAATGATAATCCTTCATAATTTATTATACAATTTATCAT
TCAGAAAGCAATAATTAAGAAAGTTTACAATGACTGAAAGATTCTTGTAAATTTGAGTATAAATGTATTTTTGT
CTTGTGGCCATTCTTGTAGATAATTTCTGCACATCTGTATAAGTACCTAAGATTTAGTTAAACAAATATATGAC
TTCAGTCAACCTCTCTCTCTAATAATGGTTTGAAGATGAGGTTTGGGTAATTGCCAATGTTGGACAGTTGATGTG
TTCATTCTGGGATCTATCATTTGAACAGCATTGTACATAACTTGGGGGTATGTGTGACAGGATTACCCAAGAAT
AACTTAAGTAGAAGAAACAAGAAAGGGAATCTTGTATATTTTGTGTAGTTCATGTTTTTCCCCAGCCACAA
TTTTACCGGAAGGGTGACAGGAAGGCTTACCAACCTGTCTCTCCCTCCAAAGAGCAGAATCTCCACCGCCCC
TGCCCTCCCCACCGAGTCTGTGGCCATTGAGAGCGGCCACATGACTTTGTCATCCATTGTATTATCAGAAAATG

TGAAGAAGAAAAAAATGCCATGTTTTAAACCCTGCGAAAATTTCGCCAAGCATAGGTGGCTTTGTGTGTGTG
CGATTTGGGGGCTTGAGTCIGGGTGGTGTGTTTTGTTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAT
GTCAAAATTGCACAAACATGGTGTCTACCAGGAAGGATTTCAGGTAGATAGGCTCAGGCCACACTTTAAAAACA
AACACACAAACAACAAAAACGGGTATTCTAGTCATCTTGGGGTAAAAGCGGGTAATGAACATTCTATCCCCAA
CACATCAATTGTATTTTTTCTGTAAACTCAGATTTTCTCAGTATTTGTGTTTTTACATTTTATGGTTAATTTA
ATGGAAGATGAAAGGGCATTGCAAAGTTGTTCAACAACAGTTACCTCATTGAGTGTGTCCAGTAGTGCAGGAAAT
GATGTCTTAICTAATGATTTGCTTCTAGAGGAGAAAACCGAGTAAATGTGCTCCAGCAAGATAGACTTTGTGTT
ATTCTATCTTTTATTCTGCTAAGCCCCAAGATTACATGTTGGTGTTCAAAGTGTAGCAAAAAATGATGTATATTT
ATAAATCTATTTATACCACTATATCATATGTATATATATTTATAACCCTTAAATTGTGAGCCAAGCCATGTAA
AGATCTACTTTTTCTAAGGGCENNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCTTTCTGAGACTTTGCTTAAT
ACTTGGTGACCTCACAATCAGTCGGTATGATTGGGCACCCTTGCCTACTGTAAGAGACCCCTAAAACCTTGGTGC
AGTGGTGGGGACCACAAAACAACCAGGGAGGAAGAGATACATCATTTTTTTAGTATTAAGGACCATCTAAGACAGC
TCTATTTTTTTTTTGCCACTTTATGATTATGTGGTCACACCCAAGTCACAGAAATAAAAACTGACTTTACCGCT
GCAATTTTTCTGTTTTCTCTTACTAAATACTGATACATTACTCCAATCTATTTTATAATTATATTTGACATTT
TGTTACATCAACTAATGTTACCTGTAGAAGAGAACAAATTCGAATAATCCAGGGAAACCCAAGAGCCTTACT
GGTCTTCTGTAACCTTCCAAGACTGACAGCTTTTTATGTATCAGTGTGTTGATAAACACAGTCCTTAACTGAAGGTA
AACCAGCATCAGTTGACATTAGACCAAATACTTTTGATTCCCACTACTCGTTTGTTCTTTTTCTCCTTTTG
TGCTTTCCCATAGTGAGAATTTTTATAAAGACTTCTTGCTTCTCTCACCATCCATCCTTCTCTTTCTGCCTCTT
ACATGTGAATGTTGAGCCCAATCAACAGTGGTTTTATTTTTCTCTACTCAAAGTTAAAACTGACCAAAGTT
ACTGGCTTTTTACTTTGCTAGAACAACTATCTTATGTTTACATACTGGTTACAATGTTATTTATGTGCAA
ATTGTCAAATGTAAATTAATAATAAATGTTTCATGCTTTACC

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FIGURE 1802

AAVTILGPPVLRGKSSDRGTCPPGAGTRAPGRPDEARRDRRGARLCGSAWRGTRGECGLGRDERDFSQMLDICLE
KRVGTTLAAPKCNSSSTVRFQGLAEGTKGTMKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGADGGTSVQAEAS
LPRNLLFKYATNSEEVI GVMSEKEYIPKGTRFGPLIGEITYTNDTPKNNRKYFWRIYSRGELHHFIDGFNEEKS
WMRYVNPASPREQNLAAQCNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNLQTQSSSLKQPS
TEKNELCPKNVPKREYSVKEILKNWTPPLQGKDLYRSNISPLTSEKDLDLDFRRRGSPMPFYPRVVYPIRAPLPE
DFLKASLAYGIERPTYITRSPIPSSTTPSPSARSSPDQSLKSSSPHSSPGNTVSPVGPQSQEHRDSYAYLNASYG
TEGLGSYPGYAPLPHLPPAFIPSYNAHYPKFLLPPYGMNCNGLSAVSSMNGINNFGLPRLCPVYSNLLGGGSLP
HPMLNPTSLPSSLPSDGARRLLQPEHPREVLVPAPHSASFSTGAAASMKDKACSPTSGSPTAGTAATAEHVVQPK
ATSAAMAAPSSDEAMNLIKNNRMTGYKTLPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERPFCQQT
CNKGFTQLAHLQKHVLTGKPHCQVCHKRFSSTNLKTHLRHSGEKPYQCKVCPAKFTQFVHLKLHKLHRLHT
RERPHKCSQCHKNYIHLCSLKVHLKGNCAAPAGPLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEK
EILAVVRKEKEETGLKVS LQRNMGNGLLSSGCSLYESSDLPLMKLPPSNPLPLVPVKVKQETVEPMDP

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FIGURE 1803

GCCTAGGAACATTTTTTAAGGACTCAGCTGTGGCTTTTAGGGCTTGGTTTCATACCATGGGGGAAAAAAGTCCT
AGGAGAAAGCGACGTGGCTCATTAGTGTTCCTCTTCAGTGTCTCAAGCCGCTGGTGGATTTCCTATGACACAGGG
GGCCTGGAAAGAAAGGGAAAGTGGATTAAATATATATATACGTAACCCAAGCCCCATAACCCCTAACTGGACA
AATGAGGTCTGTTCTTTGGGCTGAGGCTGTGCATATAAAGTCTTATTTGGGACTTTACAACTTGTCTAAC
TATCTTGTGGATAGTGGGCTGTGACAATCTGGAATAGAGAACGTTCACTTCGCTCCTTTAAAGAAGCGACCCC
AGATCTGCAAGGGAGTAGATTCTGTATCTTGGCCTCACAGCCCTTCTGTTGATTACAAAGCCCGTGAAGAAA
ACAGAACACACCCCTCCTCAGTTCGGTCTAAATGTGTTCTTCTGCTTCAATTACACCAGTTCCTGGGGCAAAGACA
CTGATGAAACAACACCCATACCTGAAAAGAATAAATGTGTGACTTTCAATCCCCTTTTCGCAGTGAAAGAAACAG
CAAACTTAAGATTGAGCATCTGTTCTCCAGTTGCATGAGGAATGCACTGTCTCGCAGCACCAGCTCTGCAGA
GCCCTTGCCCCAGACTCTTTGCGGTTTTATTTATATGTATTTCCATATTTCACTTCCTGTGTGTCACTGCTGCATT
GGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTACTATGGACACCAGGTCAGGTGCAACCACACAAAACAAAG
CCAGTTCATGAGCTGCCTATGATATGCAATTGCGGAAGTAACATTTTACCAGGGGTGTGCCATTGCAGTGATATA
AATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTTTTTGATGTGTGTACATAGGTGTGAGTGTGTSTG
TATGCGTGCCTGTGTGTGCGGGTGTGTGTATGTGCRTAGCCTCATGCTTAGGACTACCCATGAATGTTGTGGA
ATGTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTGGACCTGGAGAC
CATCCCCTTGGAAGACAACCCAGAGATGTTGAGCATCTGTATCTACACGCATCCTGTATCTACACGTGTATTT
TGAGTGTGCACACTAACCTTAATAAGAATTTCTACAGCTTTGGAAGAGAGGCATTTTACCTTAATGGYGAAGTAA
TTTAAATATAAATCCATTGAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAATCATCTGAATCA
TCACTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAATGGAGTACAAGTAGCCTTTGT
TTTCTGCTGATAAATGGACTTGTGTAATGCGAACGAATATATGCAATTCATATACTTTTGGAGATGAACGTAGATA
TGTGTGTGAGCTTTGAGATGGTGTGYCCYGGATTAATACTTTGTCTCCCCAATATCACAGAAAAATACATGCCCA
GTGACTCTTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACCTGGAAAGTT
CTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAGAGCATCAGCCTTCTAGAATCGGAGCTCCGGAG
TGTGAAGATTGAGTATTGATATGATATGTATACAAACTCCAGCCAACTTACTGCCATTTTTCATAATCTGAGTG
GCTGCCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAATCAGGGAA
AAATGAGGAAAAAATAGATTCTGAACCATTATTGTTGAATAAGTAGAGAAATCATCAATAAATATTTATTA
CATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTTGGGGACCTTA
ATATATTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTGACTCTTCTG
AGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTRAGCCCGTGGGSAAGCCCT
GGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAAACTACCCCGCTGCACCAAATCA
AGTAGCTTCACCTTGTGTATGCAGGCCCAAGTTATTTTTTAGCAATCTTACGAGTGAATGTTCTGGTGGGTTG
AAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCRITCTGAGACCTCTGTATTC
CAATCTGTGAAGGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACTTAATTC
TGACCCATAAGGAAAGTTCCTAGAXGCCAATATTTTCACTTAITTAACATTCTCCAAACAACATCAAGCATTGAT
ACACACTGAAGAGTGCCTTTATTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTCAAATTA
GAATGTATAAGGCATATTATAATTTAGTTTCACTGAAAAAGAAATTAACAGAACATTGTTTCGGTTACACGTTT
CAAAATTTGAGTGATTCTGGAGTTAGACATAGATTTTCTATTTTGTTTAATTTGTCAAGGTATTTTTCTTCCC
TTCATGAACCTTAGGTACACATAACTTATGTCATTTATTTATGGTCTTTTATACCTAGTTGTAAAATTGTA
TAGCAAACTAAATGCAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAACCCTGCAAAAAA
AAAAAACTCGAG

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FIGURE 1804

AAGCTTTCCTCTTTGCATTTTGGCATTGAAAACTCCGAAGAGCGGTTTTTGTTTTTATTTAAAGAAGATGATA
CATATGTGTACCCGATTCAAAACTAGAGAATAGAATTTAAACATAATTTTCAAAGTCTTCAAATATGCCTAAAG
GTAACAATGTTCATCTTTTAATTGCCAATTTCTCTACCCTTTCAAAAAATTACTTCCAAGGATTTAATGAGCTCC
TTCCTTTCAACAGAAAAATGGACTATTTTCCTTTCAGATTTACTATATGCTGTCACTCCAGCTTTATAACCGCATG
TGCATACACAAACATTTCTTCTCTCTTGCAGGTGGCACAACCAGGAAGGGGAAATCTGTGGTTTAAATCTTT
ATGCCTCATCTCTGAGTGTGAAGGCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTG
CCTCCAAGTACTCCTACATATTAGCATTACAGGTGTATGATGCCTGTTACTAGCATTACATGGAACAAATTGC
TGCCGTGGGAGGATGACAAAGAAGCATGAGTCACCCTGCTGGATAAACTTAGACTTCAGGCTTTATCATTTTTCA
ATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTTAACTAAGTTTTGAAAGTAAGGTTATTTAAAGAT
TTATCAGTAGTATCTAAATGCAAAACATTTTCATTAAATGTCAAGCCCATGTTTGTTTTTATCATTAAACAGAAA
ATATATTCAATGTCATTCTTAATTGCAGGTTTTGGCTTGTTTCATTATAATGTTTATAAACACCTTTGATTCAACTG
TTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAATTAGAAGGACTACTAACCTCCAGT
TATATCATGGATTGICTGGCAACGTTTTTTAAAGATTTAGAACTGGTACTTTCCCCCAGGTAACGATTTTCTG
TTCAGGCAACTTCAGTTTTAAATTAATACTTTTATTGACTCTTAAAGGGAACTGAAAGGCTATGAAGCTGAAT
TTTTTTAATGAAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCCATACA
AGATAAAAAGATTTAATCAAAAAATTTTATATTTGAAATGAAGTCCCAAATCTAGGTTCAAGTTCAATAGCTTAG
CCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTTCCACTTCTAAGCCTGTTTCTTCTCCATATGGGGATA
ATACTTTACAAGGTTGTTGTGAGGCTTAGATGAGATAGAGAATTATTCATAAGATAATCAAGTGCTACATTAAT
GTTATAGTTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTTGATTGCA
GAATATTTAAGGTTTGGATTTCTATGCAGTTTTTCTAAATAACCATCACTTACAAATATGTAACCAAACGTAATT
GTTAGTATATTTAATGTAACTTGTTTTAACAACCTTCTCAACATTTTGTCAGGTTATTCAGTGAACCAAAT
AAATCTCATGAGTCTTTAGTTGATTTAAAAA

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FIGURE 1805

MSSFLSTENGLFSFQIYYMLSLQLYNRMCIHKHFFLSRWHPGRGNLWFKFFMPHPLSAEGLL

[illegible]

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FIGURE 1807

GEMGMEKGYIKTNNGNNDDEDWSTPSXXXXXXXXXXXXXXXXMFIIIVHYSYIVRRSYN

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FIGURE 1808

CTATTTTTTAAAACGGAGGTACTGAAAAAGATCGGGAGATTTTCTATTCTCTATCAATGGGGATTTCCAGGCAC
GTGCCCCACCCAAGGCCCACGCCCAGAGCGCCCGAGTGGCAGGACAACGCCCGCTGACATCTTCCCGTCCCGACG
GCACAGGCTACTCCGAGCTCCGCCTTTTAGATTGCACCGAGAGAAGCCAGCTACAGCTTGGAGTCCAGGCCGGGT
TTTCAAGCATCAAGACGGAAGTAACAGCGGAAAGGAAGTTCCAAGGCCCGCTGGGAAAAAGGTGGGGGGACCA
GGGGAAGACTCGGAGTGCGATGGCGGCGCAAATTTCCAATTGTGGCCACCACTTCCACTCCCGGAATAGTCCGGAA
CAGCAAGAAGAGGCCGCGCCAGCCCTTCCCACAATGGCAGCAGCGGCGGGGGCTATGGCGCCAGTAAGAAGAAAAA
AGCGTCCGCTTCCAGCTTTGCGCAGGGTATCAGCATGGAAGCCATGAGTGAGAATAAAATGGTGCCCTCTGAGTT
TAGCACAGGACCTGTGGAAAAAGCTGCCAAACCTTTGCCATTTAAGGATCCCAACTTTGTGCACTCTGGCCACGG
TGGCGCAGTAGCTGGCAAGAAGAACAGAACCTGGAAGAACCTGAAACAAATCCTCGCTTCTGAAAGGGCATTGCC
GTGGCAACTGAACGATCCTAACTACTTCAGTATTGATGCTCCTCCATCCTTTAAGCCAGCTAAGAAGTATTCTGA
TGTTTCAGGCTCTGCTTGCCAACTACACAGACCCCCAGAGCAAATGCGGTTTCAGCACCATTGAAGAGTTTCTTA
CATTTCGGAGGCTGCCCTCTGACGTCGTCACCGGCTACCTGGCCCTGAGGAAGGCCACGAGCATCGTTCCCTGAGC
CCCAGAAAGGGAGATGAAATGGAAGCTGTTTCAAAAACAGACTCTGGACTCATGATTTTGTTCACGGAAACAA
ACTCGTTCTGCTGTCAATCTGAAATGCCAGTGCTGTGCCTTGGAAAGAATGTTTGGCTTTAATTTAAGGGTTT
TTTTTTTTTTTAGTGTGTGTTTTCCCTCCAAGTGTGATTTTCTGCTGAATTAAATTATACTTCAGTTGTTGCC
TCAAGTAAAGGTGTTTGACAAGAAGATACAATAAAACCATACTTTTCATTTAAAAAA

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FIGURE 1809

MAAQIPIVATTSTPGIVRNSKKRPASPSHNGSSGGYGASKKKKASASSFAQGISMAMSENKMVPSEFSTGPVE
KAAKPLPFKDPNFVHSGHGGAVAGKKNRTWKNLKQILASERALPWQLNDPNYFSIDAPPSFKPAKKYSDVSGLLA
NYTDPQSKLRFSTIEEFSYIRRLPSDVVTGYLALRKATSIVP

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FIGURE 1810

ATGGCTTTAGAGATCCACATGTCAGACCCCATGTGCCTCATCGAGAACTTTAATGAGCAGCTGAAGGTTAATCAG
GAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGGCCTCTATCGCACTGGC
AAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCAGTCTCACACC
AAGGGAATTTGGATATGGTGTGTGCCTCATCCCAACTGGCCAAATCACACATTAGTTCTGCTTGACACCGAGGGC
CTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGCACTGGCACTCTTACTGAGCAGCACC
TTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGCTATCGACCTACTGCACAATGTGACAGAAGTACAGAT
CTGCTCAAGGCAAGAACTCACCCGACCTTGACAGGGTTGAAGATCCTGCTGACTCTGCGAGCTTCTTCCAGAC
TTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCTGGAAATAGATGGGCAACTTGTACACCAGATGAATACCTG
GAGAATTCCCTAAGGCCAAAGCAAGGTAGTGATCAAAGAGTTCAAATTTCAATTTGCCTCGTCTGTGTATACAG
AAGTTCTTTCCAAAAAAGAAATGCTTTATCTTTGACTTACCTGCTCACCAAAAAAAGCTTGCCCAACTTGAAACA
CTGCCTGATGATGAGCTAGAGCCTGAATTTGTGCAACAAGTGACAGAATTCTGTTCCCTACATCTTTAGCCATTCT
ATGACCAAGACTCTTCCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGCTGACCTATGTCAAT
GCCATCAGCAGTGGGGATCTGCCTTGATAGAGAATGCAGTCTTGGCCTTGGCTCAGAGAGAGAAGTACAGTGCA
GTGCAAAAGGCCATTGCCCCTATGACCAGCAAATGGGCCAGAAAGTGACGCTGCCCATGGAAACCCCTCCAGGAG
CTGCTGGACCTGCACAGGACCAGTGAGAGGGAGGCCATTGAAGTCTTCATGAAAACTCTTTCAAGGATGTAGAC
CAAAGTTTCCAGAAAGAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAAACGGAACCTGGAAGCA
TCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTGGTCTCTAGAAGAAGCAGTGAAGCAGGGAATTTAT
TCTAAGCCAGGAGGCCATAATCTCTTCATTGAGAAAACAGAAGAACTGAAGGCAAAGTACTATCGGGAGCCTCGG
AAAGGAATACAGGCTGAAGAAGTTCTGCAGAAATATTTAAAGTCCAAGGAGTCTGTGAGTCATGCAATATTACAG
ACTGACCAGGCTCTCACAGAGACGGAAAAAAGAAGAAAGAGGCACAAGTGAAAGCAGAAGCTGAAAAGGCTGAA
GCGCAAAGGTTGGCGGCGATTCAAAGGCAGAACGAGCAAATGATGCAGGAGAGGGAGAGACTCCATCAGGAACAA
GTGAGACAAATGGAGATAGCCAAACAAAATTGGCTGGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAA
CAGGCTGCACAGCTCAGCACAAACATTCCAAGCTCAAAATAGAAGCCTTCTCAGTGAGCTCCAGCAGCCCCAGAGG
ACTGTTAATAACGATGATCCATGTGTTTTACTCTAA

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FIGURE 1811

MALEIHMSDPMCLIENFNEQLKVNQEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGF SVASTVQSHT
KGIWIWCVPHPNWPNTLVLLDTEGLGDVEKADNKNDIQIFALALLSSTFVYNTVKNIDQGAIDLLHNVTETD
LLKARNSPDLDRVEDPADSASFFPDLVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGSQORVQNFNLPRLCIQ
KFFPKKKCFIFDLP AHQKKLAQLETLPDDELEPEFVQQVTEFCSYIFSHSMTKTLPGGIMVNGSRLKNLVLTIVN
AISSGDLPCIE NAVLALAQRENSAAVQKAI AHYDQQMGQKVQLPMETLQELLDLHRTS EREAIEVFMKNSFKDVD
QSFQKELETLLDAKQNDICKRNLEASSDYCSALLKDIFGPLEEAVKQGIYSKPGGHNLF IQKTEELKAKYYREPR
KGIQAEVVLQKYLKSKESVSHAILQTDQALTETEKKKKEAQVKA EAEKAEQRLAAIQRQNEQMMQERERLHQEQ
VRQMEIAKQNWLAEEQQMQEQMQEQAAQLSTTFQAQNRSLSELQHAQRTVNNDPCVLL

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FIGURE 1812A

ATTATGGGCTGTGGGTGCCGCTGAGCAAGATGGAGCTGTCTGCAGTGGGCGAGCGGGTCTTCGCGGCCGAATCCA
TCATCAAACGGCGGATCCGAAAGGGACGCATCGAGTACCTGGTGAAATGGAAGGGGTGGGCGATCAAGTACAGCA
CTTGGGAGCCCGAGGAGAACATCCTGGACTCGCGGCTCATTGCAGCCTTCGAACAAAAGGAGAGGGAGCGTGAGC
TGTATGGGCCCCAAGAAGAGGGGACCCAAACCCAAACTTTCTCTGAAGGCGCGGGCCCCAGGCCGAGGCCCTCC
GCATCAGTGATGTGCAATTTCTCTGTCAAGCCGAGCGCCAGTGCCTCCTCGCCCAAGCTGCACTCCAGCGCAGCCG
TGCACCGGCTCAAGAAGGACATCCGCGCTGCCACCGTATGTCCCGCGTCCCTGCCCGCCCGGACCCGCGAGG
GGGGCAGCCCCGACTGCGCCCGCCCATTTGCGCCTTCTCGGAGACGGTGCATCATCAACCGCAAGGTGAAGC
CGCGGAGCCCAAGCGGAACCGCATCATCTGAACCTGAAGGTGATCGACAAGGGCGCTGGCGCGGGGGCGCCG
GGCAGGGGGCCGGGGCGCTGGCCCGCCCAAGTCCCTCGCGGAACCGGTTATAGGCAAGAGCAAGAAGTTCA
GCGAGAGCGTCTGCGTACACAGATCCGCCACATGAAGTTGGGCGCCTTTGCGCTGTACAAGCCTCCGCCCGCCC
CCCTGGTAGCCCCGTCCCCCGCAAGGCTGAGGCCTCAGCCCCGGGCCCTGGGCTACTTCTGGCGCCCCCGCCG
CCCCCTACGACGCCCGAGCTCTGGCTCCTCCGGCTGCCCTCGCCTACACCACAGTCTCTGACCCCGACGACA
CGCCCCCAAGCTCCTCCCGAGACCGTGAGCCCATCCGCCCCAGCTGGCGCGAGCCGGAGGTGCTCGACCTGT
CCCTCCCTCCCGAGTGGCGAGCCACCAGCAAGCGGGACCGCTGAGGTACAGCTGCTGCCGGCCCGGCACCTC
CCACGCCCCCTGAGCCCGCGGTGCCTCCTCCGAGCCCGAGGCTGGGACTGGCGCCCCGAGATGTACCCCTGCT
CCAATGTGGTCGTACCCGATGTACACAGCAACCTCCTGACGGTACAATCAAGGAATTCTGCAACCTGAGGATT
TCGAGAAGGTGGCTGCTGGGGTAGCAGGCGCCGCTGGGGGCGGTGGCAGCATTGGGGCGAGCAAGTGAAGGGGCT
CCACCAAGGAGGGGGGCTTGGGGGGGCCCTCCTGCCGAAGTCATACTCTTGCTCCACCCACCCCTTGCCCCA
GCCCTCTCTCCCTGTGCTTTGCTTGTCTCAAATGGCTCGGTGTTGACCCAGGGATGGGGCTGGGTAGTTGGGGTC
CCAGAAAGCCGGGGGTAGGGGCCACCCTGGAATGGGGCAGGGGAAGGGCACACCCCTGCCATGCATGGTAGCC
CACTGGGTGGTTTTCTGAAAGCCCTAGAACTAGGGTTCCTCTGCCCTTCCACATCCACCTGTCTCTTAGCT
TGCTTCTGTCTCTCTGTGCGCGTCTGATTTCTCGGTGCTAACCTGGCAGCTGTGGGGCCCTTAGGAGCCCCC
ACCGAGGGTGGACACAGTCCCTTTCTTCTCGAGATGCCTAGGCAGGAGGAGGGCTTCTGCTGTTTGGCAA
GTCCCAGGCAGAGGCCAAGGATGAGGCCTGACTCGGCTCCTCCCTCCACATCAGCCAGGGCATCAGAAGTTGGGC
CAGGGCGGGTCTTCCCTGCTCGATTTTGGACGAGGCCTAAGTAGACCCCTATGCCCTGCCCGAGCCCTGGCTC
TTTCTAACCCCTCAACGGTGGGAGGAACGGCAGAGGGTGGCCTGGCCACAGCCTCCCGCATCAAAGGCC
CCTTCAGTTCTTGACCAAAGGTGCTACGAGAACCTGCCGTGGAACTTCCAGTTGTGCGTCTGCCCACTCGCTG
TGTTTGTCCGTGGGTTCATACATGCATTGGGTGCTAGGCCCCAGGCTGCCGGGTGGCACCCCTTTACAGTTCCCTT
GAACAGGGGCATTGAAGGCCTGGACTGCCTCTCGCTCAGTAGGCCTGGGGACCAGGCTTGGGTCTGGAGGTTG
CTGTGGAAGTACCAGGCCTCCCTCCTGGCCAGGTGTGCTGGGGGCACCGTGGCCCCACCCCTGCCCTCC
TCAGGGTGGTCAGCCCAACCTGTGACCTTCACTTCACATCATGTTGGGGACCGAGATAGAGAGGGAGACCCCA
TTCCAAGTCCCTCTTCTCCGGGTGTTTGGGGAGGATGCTGAAGAAATCCATTCCCGAGGGCCTCCCGCTTGTC
CCAGCCCTCTTTGCTTCTGACCACGGAGGCTTCTCACAGCCAGCCTGCCTGAAGCAAAGGAGGCTCCCGTG
TCCTGGGCAGCTCTGTTTCCCTCTGCTGCCTGGGAGCTGAGGCACCCGTGCCAGTGGCAGAGGCCACAGCCCA
GCCTTAGGCCAGGCCCTGGGAGGGCAGGCAGGCAAAGGGGAGACCAGAGGGTCTGTGTTCTCCAGGAGAATGAGG
GTGTTGGTCCCAGAATTGGGACCGGGCCCCGCTGGCCAGCCCTGGGCCACTTCCCGGTCTCCATTGTGCGTGG
GTGGCGTGTTCAGGCGTGGCTGGAGCTGGCTTCTGGCTGTGCTGCCATGGGCCCCCTCCCTCAGAAGCACGTTG
GCAGGAGGCCGATCAGAACCCTAGCGCCTTTGGTCTAAGAATGGGAGGCTGCCTTCTTCCAATCTCCCTGCC
AGGGCCACAGCGTGGCCCTAGCCCTCCCTCCCGGGATGTAGAAGGGGACCCCTCGCAGGGTTGGGGCGGGGG
CTGATACTCCTCGCCCCCTCCCTACCTGCCCTGTGTGTTGGCTTTGTGGCCGTCCAAGTGCCAATTGGCTTTT
GCCCAAATAAGGGCTGGTATTTCTCTCTGTCTTGGAGGTGATTTCCCTGAGAGTTTCGTGTCATTTCGTGA
CCACCTGGGTGCCAGTTACAGGTGTTTCCAGAGACCATAGAAATGTGTTTCTGAGAGTTTCGTGTCATTTCGTGA
CTTTTTTGTAAGAAGTTGTGTTTTAGAGGTGATTTATGACAGGAAAGTGAAAGAATTAGTTTTGCAAAAAA
CAAAAACAAAAAAGAGGAAAAAAGAAATAGAAAAAATATTGTGGGATTCTATGGGGGGGTGGCGGGGG
AGAAAGAGCTATTTAAGAAAAAATAGTAACGCAGTGATTGCACAGGTGAGGTGGCAATGTCAGGATGGGGCGGAG
GCCTGGGCCCAGCTGGCAGGTCCCTGGCATCGCAGGCACTGTGGAGAGGGCCTGGACCCAGATCTCCACACCCG
TGCTTGCTCAAAGGAAGGACAACAGCGGGCCCCGGGAGCTAACCAAGCTGCAGGTCCCGCAAGCTGAGGTT
TGGGAGGGTGGGGGTGTCACTGGTGATTTTCTCAGGGGGCTGGTGAGTGGGCAGTTTGGTTTCTTGCCCCCTT